

Section 6

Area, Geography, and Climate

This section relates to area, climatologic, topographic, and hydrologic measurements of the United States. There are few official publications other than those showing area measurements (issued infrequently by the Bureau of the Census), which present area and geography statistics of national scope. However, many data are compiled for particular regions or for internal administrative purposes by such Federal agencies as the Geological Survey and the Environmental Science Services Administration.

Area.—Area measurements in the United States began with the country as a whole and developed, as mapping progressed, to measurements for the States. The annual report of the U.S. General Land Office for 1850 contained the first reference to the areas of the States and Territories, although there was no indication of the method used in obtaining the measurements. Until 1881, the General Land Office was practically the sole source of information on areas of the States and Territories.

In 1881, as part of the 1880 Census of Population, the Bureau of the Census laid the foundation for accurate and detailed area measurement in the United States. For the first time an account was given of the method and maps employed, the water bodies included, and the outer limits of the United States used as a basis for measurement. As part of the 1940 census, the Bureau published *Areas of the United States: 1940*, presenting data on the total land and water areas of the States, counties, cities, and minor civil divisions. For reports of the 1950 and 1960 censuses, adjustments in selected area figures were made for three principal reasons: Changes in boundaries, the development of water reservoirs, or improvement in maps from which area measurements are made. In 1964, the Bureau undertook measurement of the areas of cities, minor civil divisions, and census county divisions of the 1960 census. The results are published in *Area Measurement Reports, Series GE-20*, the series consisting of one report for each State and a U.S. summary. These reports include the same kinds of data as the 1940 report plus statistics on the population (total and per square mile) for each area.

Geography.—The Geological Survey, cooperating with State and local agencies, is responsible for topographic, geologic, and hydrologic maps; basic data on the quantity, quality, and movement of surface and ground water; and classification of Federal lands for mineral and waterpower potential.

The Bureau of Land Management conducts surveys and maintains records of the public domain and other public lands.

The Coast and Geodetic Survey, a component of the Environmental Science Services Administration, was authorized in 1807 and is responsible for coastal and geodetic surveys and measurement of certain physical phenomena. Its original function was to survey and chart the coast of the United States and the outlying islands and fishing banks. Currently, its primary functions are to provide charts for marine and air navigation, a basic network of geodetic control, and other basic data for engineering, scientific, commercial, industrial, and defense needs.

A civil mapping activity of the Corps of Engineers, the U.S. Lake Survey, was established in 1841. Its primary function is to furnish Great Lakes navigators with reliable charts and information on harbor facilities. It also maintains records of the fluctuating levels of the Great Lakes, the precipitation over them, and the flow through connecting rivers, and issues reports on all hydraulic problems relating to the Great Lakes.

Air pollution.—The Public Health Service first established an air sampling network in 1953. The basic sampling system of the present National Air Surveillance Network's was set up in 1967. The Network's objectives are to determine the extent and nature of air pollution and to study trends in levels of atmospheric contaminants, including particulate matter, gases, and radioactivity. Currently there are 245 sampling stations in the Network, 215 urban and 30 nonurban.

Climate.—The Environmental Science Services Administration, through the Weather Bureau and the Environmental Data Service, is responsible for collecting, processing, and publishing data on climate. It maintains about 11,000 weather stations, of which nearly 3,000 produce autographic precipitation records, about 600 take automatic or hourly readings of a series of weather elements, and the remainder record one observation a day.

Nearly all weather stations have been moved several times in their history. Consequently, the Weather Bureau uses "normal" values of temperature and precipitation for comparative purposes rather than long-term means which are derived from records taken at the different locations the stations may have had over the years.

Normal values of temperature and precipitation are based on records for the 30-year period 1931 to 1960. For stations having records for the entire 30 years from the same instrument site, monthly precipitation and temperature normals are the means of the monthly values for the 30 years; for temperature, the normal maximum and normal minimum values were used to obtain monthly normals. The annual normal temperature is obtained by dividing by 2 the sum of the annual normal maximum value and the annual normal minimum value of temperature.

For stations that did not have continuous records from the same instrument site for the entire 30 years, 1931 to 1960, the means have been adjusted to the record at the present site. In these adjustments, a "difference factor" was used for temperature and a "ratio factor" for precipitation. These factors were determined by parallel comparison, either between records at the actual station sites or through a second station that had a continuous record to compare against both sites for obtaining the resultant adjustment factors. Normals were thereafter obtained as outlined above.

This system of normals has three characteristics: (1) The 30-year period (1931 to 1960) adopted for the computations is consistent with the term of years accepted by the World Meteorological Organization for climatic normals; (2) where the station and exposure for records in a given locality have been changed, the whole record has been carefully studied and adjusted to the latest source of records and reports; (3) the normals for maximum and minimum temperatures are separately tabulated.

The degree-day normals are derived from the values for the monthly normal maximum and minimum temperatures, and computed from the standard base 65° F. The degree day has been defined as follows: "A unit, based upon temperature difference and time, used in estimating fuel consumption and specifying nominal heating load in winter. For any one day, when the mean temperature is less than 65° F., there exist as many degree days as there are Fahrenheit degrees difference in the temperature between the average temperature for the day and 65° F."

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 252. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER AREAS

[Boundaries of all territories listed under "United States" were indefinite, at least in part, at time of acquisition. Area figures shown here represent precise determinations of specific territories which have been marked upon maps, based upon interpretations of the several treaties of cession, which are necessarily debatable. These determinations were made by a committee consisting of representatives of various governmental agencies in 1912. Subsequently these figures were adjusted to bring them into agreement with remeasurements made in 1960. See also *Historical Statistics, Colonial Times to 1957*, series J 1-2]

ACCESSION	Date	Gross area (land and water)	ACCESSION	Date	Gross area (land and water)
Total.....	1960	Sq. mi. 3,628,062	Other:		Sq. mi.
United States.....	(X)	3,615,123	The Philippines ¹	1898	115,600
Territory in 1790.....	(X)	888,686	Puerto Rico.....	1899	3,435
Louisiana Purchase.....	1803	827,192	Guam.....	1899	212
By treaty with Spain:			American Samoa.....	1900	76
Florida.....	1819	58,560	Canal Zone ²	1904	553
Other areas.....	1819	13,443	Coral Islands ³	1914	4
Texas.....	1845	390,144	Virgin Islands of the U.S.	1917	133
Oregon.....	1846	285,580	Trust Territory of the Pacific Islands ⁴	1947	8,484
Mexican Cession.....	1848	529,017	All other ⁵	(X)	42
Gadsden Purchase.....	1853	29,640			
Alaska.....	1867	586,412			
Hawaii.....	1898	6,450			

X. Not applicable.

¹ Includes that part of drainage basin of Red River of the North, south of 49th parallel, sometimes considered part of Louisiana Purchase.

² Not included in total. Ceded by Spain in 1898, the Philippines constituted a territorial possession of the United States from 1898 to 1946. Granted independence as of July 4, 1946, they then became the Republic of the Philippines.

³ Ceded by Spain in 1808 and became Commonwealth of Puerto Rico by Act of Congress on July 25, 1952. See table 10.

⁴ Acquired 1898; ratified 1899.

⁵ Acquired 1899; ratified 1900.

⁶ Under jurisdiction of United States in accordance with treaty of Nov. 18, 1903, with Republic of Panama.

⁷ Leased (1914) from Republic of Nicaragua for 99 years.

⁸ Under trusteeship. See table 10, footnote 18.

⁹ Comprises following islands with gross areas as indicated: Midway (2), Wake (3), Palmyra (4), Canton and Enderbury (combined area, 27), Swan (1), Navassa (2), Baker, Howland, and Jarvis (combined area, 3), Johnston and Sand (combined area, less than 0.5), Kingman Reef, Quitta Sufio Bank, Roncador Cay, and Serrano Bank (each less than 0.5), and other islands specified in table 10, footnote 8, for which area figures are not available.

Source: Dept. of Commerce, Bureau of the Census; unpublished data.

No. 253. COASTLINE OF THE UNITED STATES, BY STATES

[In statute miles]

STATE	General coastline ¹	Tidal shoreline ²	STATE	General coastline ¹	Tidal shoreline ²
United States.....	12,383	88,633	Atlantic coast—Continued		
Atlantic coast.....	2,069	28,673	South Carolina.....	187	2,876
Connecticut.....		618	Virginia.....	112	3,315
Delaware.....	28	381	Gulf coast.....	1,631	17,141
Florida.....	580	3,331	Alabama.....	53	607
Georgia.....	100	2,344	Florida.....	270	5,095
Maine.....	228	3,478	Louisiana.....	397	7,721
Maryland.....	31	3,190	Mississippi.....	44	359
Massachusetts.....	192	1,519	Texas.....	367	3,359
New Hampshire.....	13	131	Pacific coast.....	7,623	40,298
New Jersey.....	130	1,792	Alaska.....	5,380	31,383
New York.....	127	1,850	California.....	840	3,427
North Carolina.....	301	3,375	Hawaii.....	750	1,062
Pennsylvania.....	—	89	Oregon.....	206	1,410
Rhode Island.....	40	384	Washington.....	157	3,026
			Arctic coast, Alaska.....	1,060	2,521

¹ Represents zero.

² Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1: 1,200,000 as possible. Coastline of sounds and bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point.

³ Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, sounds, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

Source: Dept. of Commerce, Environmental Science Services Administration; *Coastline of the United States*, April 1, 1961.

No. 254. AREA OF STATES AND OTHER AREAS: 1960

[Area in square miles]

STATE OR OTHER AREA	Capital	Year of admission to statehood	AREA			
			Total	Rank order	Land ¹	Water ²
United States	Washington, D.C.	(X)	3,615,123	(X)	3,540,911	74,212
New England						
Maine		(X)	66,608	(X)	62,992	3,616
New Hampshire	Augusta	1820	33,215	39	30,933	2,282
Vermont	Concord	3 1788	9,304	44	9,033	271
Massachusetts	Montpelier	1791	9,600	43	9,274	335
Rhode Island	Boston	3 1788	8,257	45	7,833	424
Connecticut	Providence	3 1790	1,214	50	1,049	165
Middle Atlantic	Hartford	3 1788	5,000	48	4,870	139
New York		(X)	102,745	(X)	100,426	2,319
New Jersey	Albany	3 1788	49,576	30	47,889	1,707
Pennsylvania	Trenton	3 1787	7,836	46	7,582	304
East North Central	Harrisburg	3 1787	45,333	33	45,025	308
Ohio	Columbus	(X)	248,283	(X)	244,365	3,918
Indiana	Indianapolis	1803	41,222	35	41,018	204
Illinois	Springfield	1810	36,201	38	36,189	102
Michigan	Lansing	1818	58,400	24	55,875	525
Wisconsin	Madison	1837	58,216	23	56,817	1,390
West North Central		(X)	56,154	26	54,466	1,688
Minnesota	St. Paul	(X)	517,247	(X)	508,192	9,055
Iowa	Des Moines	1858	84,068	12	79,289	4,779
Missouri	Jefferson City	1846	56,290	25	56,043	247
North Dakota	Bismarck	1821	69,686	19	69,046	640
South Dakota	Pierre	1889	70,605	17	69,280	1,385
Nebraska	Lincoln	1867	77,227	15	76,522	705
Kansas	Topeka	1861	82,264	14	82,056	208
South Atlantic		(X)	278,776	(X)	267,352	11,424
Delaware	Dover	3 1787	2,057	49	1,982	75
Maryland	Annapolis	3 1788	10,577	42	9,891	636
District of Columbia		(X)	67	(X)	61	6
Virginia	Richmond	3 1788	40,817	36	39,841	976
West Virginia	Charleston	1863	24,181	41	24,084	97
North Carolina	Raleigh	3 1789	52,586	28	48,880	3,708
South Carolina	Columbia	3 1788	31,055	40	30,280	775
Georgia	Atlanta	3 1788	58,376	21	58,197	679
Florida	Tallahassee	1845	53,500	22	54,136	4,424
East South Central		(X)	181,964	(X)	179,426	2,538
Kentucky	Frankfort	1792	40,395	37	39,851	544
Tennessee	Nashville	1796	42,244	34	41,366	878
Alabama	Montgomery	1819	51,609	29	50,861	768
Mississippi	Jackson	1817	47,716	32	47,358	358
West South Central		(X)	438,885	(X)	429,259	9,626
Arkansas	Little Rock	1836	53,104	27	52,175	929
Louisiana	Baton Rouge	1812	48,523	31	45,131	3,392
Oklahoma	Oklahoma City	1907	68,919	18	68,983	936
Texas	Austin	1845	267,339	2	262,970	4,369
Mountain		(X)	863,887	(X)	856,633	7,254
Montana	Helena	1889	147,138	4	145,603	1,535
Idaho	Boise	1890	83,557	13	82,677	880
Wyoming	Cheyenne	1890	87,914	9	97,281	633
Colorado	Denver	1876	104,247	8	103,794	453
New Mexico	Santa Fe	1912	121,666	5	121,445	221
Arizona	Phoenix	1912	113,009	6	113,563	346
Utah	Salt Lake City	1896	84,016	11	82,381	2,535
Nevada	Carson City	1864	110,540	7	109,889	651
Pacific		(X)	916,728	(X)	892,266	24,462
Washington	Olympia	1889	68,192	20	66,683	1,529
Oregon	Salem	1859	96,981	10	96,200	772
California	Sacramento	1850	158,693	3	155,537	2,156
Alaska	Juneau	1959	886,412	1	866,432	10,080
Hawaii	Honolulu	1959	6,450	47	6,425	25
Other areas:						
Puerto Rico	San Juan	(X)	3,435	(X)	3,421	14
American Samoa	Pago Pago	(X)	76	(X)	76	-
Canal Zone		(X)	553	(X)	362	191
Guam	Agana	(X)	212	(X)	209	3
Trust Terr. of Pacific Is. ³		(X)	8,484	(X)	6,687	7,797
Virgin Islands of U.S.	Charlotte Amalie	(X)	133	(X)	132	1

¹ Represents zero. ² Not applicable.¹ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area. Excludes areas of oceans, bays, sounds, etc., lying within U.S. jurisdiction but not defined as inland water.² Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area. Excludes areas of oceans, bays, sounds, etc., lying within U.S. jurisdiction but not defined as inland water.³ Year of ratification of Constitution; one of the original 13 States.⁴ See table 10, footnote 12.⁴ See table 10, footnote 15.

No. 255. WATER AREA, OTHER THAN INLAND WATER—STATES

[In square miles. Includes only that portion of body of water under the jurisdiction of the United States, excluding Alaska and Hawaii. Excludes inland waters; see footnote 2, table 254]

BODY OF WATER AND STATE	Area	BODY OF WATER AND STATE	Area	BODY OF WATER AND STATE	Area
Total.....	74,364	Straits of Georgia and Juan de Fuca: Washington.....	1,610	New York Harbor.....	92
Atlantic coastal water.....	2,208	Lake Huron: Michigan.....	8,975	New Jersey.....	69
Florida.....	37	Long Island Sound.....	1,299	New York.....	23
Georgia.....	48	Connecticut.....	573	Lake Ontario: New York.....	3,083
Maine.....	1,102	New York.....	726	Pacific coastal water.....	343
Massachusetts.....	959	Gulf of Mexico coastal water.....	3,837	California.....	69
Rhode Island.....	14	Alabama.....	560	Oregon.....	48
South Carolina.....	138	Florida.....	1,098	Washington.....	226
Chesapeake Bay.....	3,287	Louisiana.....	1,016	Puget Sound: Washington.....	561
Maryland.....	1,726	Mississippi.....	556	Lake St. Clair: Michigan.....	118
Virginia.....	1,511	Texas.....	7	Lake Superior.....	21,118
Delaware Bay.....	665	Lake Michigan.....	22,178	Michigan.....	16,231
Delaware.....	350	Illinois.....	1,526	Minnesota.....	2,212
New Jersey.....	315	Indiana.....	228	Wisconsin.....	2,675
Lake Erie.....	5,002	Michigan.....	13,037		
Michigan.....	216	Wisconsin.....	7,387		
New York.....	594				
Ohio.....	3,457				
Pennsylvania.....	735				

Source: Dept. of Commerce, Bureau of the Census; *Areas of the United States: 1940*.

No. 256. LENGTHS OF PRINCIPAL RIVERS

[Comprises rivers 400 miles or more in length. Length represents distance to designated outflow from (a) original headwater of named river where name applied to entire length of channel, or (b) upper limit of channel so named, usually the junction of 2 tributaries or headwater streams]

RIVER	Outflow	Length (miles)	RIVER	Outflow	Length (miles)
Apalachicola-Chattahoochee.....	Gulf of Mexico.....	550	Neosho.....	Arkansas River.....	450
Arkansas.....	Mississippi River.....	1,460	Niobrara.....	Missouri River.....	431
Belle Fourche.....	Cheyenne River.....	416	North Canadian.....	Canadian River.....	784
Big Sioux.....	Missouri River.....	420	North Platte.....	Platte River.....	680
Brazos.....	Gulf of Mexico.....	1,210	Ohio.....	Mississippi River.....	981
Canadian.....	Arkansas River.....	900	Ohio-Allegheny.....	Mississippi River.....	1,306
Cimarron.....	Arkansas River.....	698	Ouachita.....	Red River.....	605
Clark Fork-Pend Oreille.....	Pecos.....	605	Pearl.....	Gulf of Mexico.....	490
Colorado (U.S.-Mex.).....	Columbia River.....	1,450	Arkansas River.....	Rio Grande.....	926
Colorado (Texas).....	Gulf of California.....	1,450	Fee Dee-Yadkin.....	Winyah Bay.....	435
Columbia.....	Matagorda Bay.....	894	Porcupine.....	Yukon River.....	555
Columbia, Upper.....	Pacific Ocean.....	1,214	Powder.....	Yellowstone River.....	486
To mouth of Snake River.....	To mouth of Snake River.....	890	Red (Okla.-Tex.-La.).....	Mississippi River.....	1,222
Colville.....	Beaufort Sea.....	428	Red River of the North.....	Lake Winnipeg.....	545
Connecticut.....	Long Island Sound.....	407	Republican.....	Kansas River.....	422
Cumberland.....	Ohio River.....	687	Rio Grande.....	Gulf of Mexico.....	1,885
Gila.....	Colorado River.....	630	St. John.....	Bay of Fundy.....	400
Green (Utah-Wyo.).....	Colorado River.....	730	Salmon (Idaho).....	Snake River.....	402
Imnoko.....	Yukon River.....	463	Santee-Wateree-Catawba.....	Atlantic Ocean.....	488
James (N. Dak.-S. Dak.).....	Missouri River.....	710	Smoky Hill.....	Kansas River.....	560
Kootenai.....	Columbia River.....	485	Snake.....	Columbia River.....	1,000
Koyukuk.....	Yukon River.....	554	South Platte.....	Platte River.....	442
Kuskokwim.....	Kuskokwim Bay.....	800	Susquehanna.....	Chesapeake Bay.....	458
Little Missouri.....	Missouri River.....	560	Tanana.....	Yukon River.....	531
Maris des Cygnes-Osage.....	Missouri River.....	496	Tennessee.....	Ohio River.....	652
Milk.....	Missouri River.....	625	Tennessee-French Broad.....	Ohio River.....	869
Mississippi.....	Mouth of SW Pass.....	2,348	Tombigbee.....	Mobile River.....	409
Mississippi, Upper.....	To mouth of Missouri River.....	1,171	Trinity.....	Trinity Bay.....	715
Mississippi-Missouri-Red Rock.....	Wabash.....	839	Washita.....	Ohio River.....	475
Missouri.....	Washita.....	3,741	White (Ark.-Mo.).....	Red River.....	626
Missouri-Red Rock.....	White (Ark.-Mo.).....	2,315	White.....	Mississippi River.....	685
Mobile-Alabama-Coosa.....	Yellowstone.....	2,564	Wisconsin.....	Missouri River.....	507
	Yukon.....	639	Yellowstone.....	Mississippi River.....	430
				Missouri River.....	671
				Bering Sea.....	1,875

Source: Dept. of the Army, Corps of Engineers; unpublished data.

No. 257. AREAS OF SELECTED NATURAL LAKES

[In square miles. Comprises lakes with surface area of 100 square miles or more]

LAKE	STATE	AREA	LAKE	STATE	AREA
Bear.....	Idaho and Utah.....	110	Rainy.....	Minnesota and Canada.....	345
Becharof.....	Alaska.....	458	Red Lake (Upper and Lower).....	Minnesota.....	451
Champlain.....	New York, Vermont, and Canada.....	490	St. Clair.....	Michigan and Canada.....	460
Clark.....	Alaska.....	110	Salton Sea ¹	California.....	2,350
Dall.....	Alaska.....	100			
Flathead.....	Montana.....	197	Tahoe.....	California and Nevada.....	193
Great Salt ²	Utah.....	2,100	Teshekpuk.....	Alaska.....	315
Ilamna.....	Alaska.....	1,000	Tustumena.....	Alaska.....	117
Lake of the Woods.....	Minnesota and Canada.....	1,485	U�ashik (Upper and Lower).....	Alaska.....	
Leech.....	Minnesota.....	178			147
Mille Lacs.....	Minnesota.....	207	Upper Klamath.....	Oregon.....	142
Moosehead.....	Maine.....	117	Utah.....	Utah.....	140
Naknek.....	Alaska.....	242	Winnibigoshish.....	Wisconsin.....	215
Okeechobee.....	Florida.....	700	Yellowstone.....	Minnesota.....	100
Pend Oreille.....	Idaho.....	148		Wyoming.....	137
Pontchartrain ¹	Louisiana.....	625			

¹ Salty. ² Variable.Source: Dept. of the Interior, Geological Survey; *Principal Lakes of the United States*, Circular 476.

No. 258. ALTITUDES OF NAMED SUMMITS

[In feet. Comprises peaks over 14,000 feet above sea level]

SUMMIT	STATE	RANK	ALTITUDE	SUMMIT	STATE	RANK	ALTITUDE
Mt. McKinley.....	Alaska.....	1	20,320	Mt. Wrangell.....	Alaska.....	45	14,163
Mt. St. Elias.....	Alaska.....	2	18,008	Mt. Shasta.....	Calif.....	46	14,162
Mt. Foraker.....	Alaska.....	3	17,400	Mt. Sill.....	Calif.....	47	14,162
Mt. Bona.....	Alaska.....	4	16,500	El Diente Peak.....	Colo.....	48	14,159
Mt. Blackburn.....	Alaska.....	5	16,390	Maroon Peak.....	Colo.....	49	14,156
Mt. Sanford.....	Alaska.....	6	16,237	Tabeguache Mtn.....	Colo.....	50	14,155
South Buttress.....	Alaska.....	7	15,885	Mt. Oxford.....	Colo.....	51	14,153
Mt. Vancouver.....	Alaska.....	8	15,700	Mt. Sneffels.....	Colo.....	52	14,150
Mt. Churchill.....	Alaska.....	9	15,638	Point Success.....	Wash.....	53	14,150
Mt. Fairweather.....	Alaska.....	10	15,300	Mt. Democrat.....	Colo.....	54	14,148
Mt. Hubbard.....	Alaska.....	11	15,015	Liberty Cap.....	Wash.....	55	14,133
Mt. Bear.....	Alaska.....	12	14,831	Capitol Peak.....	Colo.....	56	14,130
East Buttress.....	Alaska.....	13	14,730	Pikes Peak.....	Colo.....	57	14,110
Mt. Hunter.....	Alaska.....	14	14,573				
Mt. Alverstone.....	Alaska.....	15	14,535	Snowmass Mtn.....	Colo.....	58	14,092
Browne Tower.....	Alaska.....	16	14,530	Windom Peak.....	Colo.....	59	14,087
Mt. Whitney.....	Calif.....	17	14,494	Mt. Russell.....	Calif.....	60	14,086
Mt. Elbert.....	Colo.....	18	14,433	Mt. Eolus.....	Colo.....	61	14,084
Mt. Massive.....	Colo.....	19	14,421	Mt. Columbia.....	Colo.....	62	14,073
Mt. Harvard.....	Colo.....	20	14,420	Mt. Augusta.....	Alaska.....	63	14,070
Mt. Rainier.....	Wash.....	21	14,410	Culebra Peak.....	Colo.....	64	14,069
Mt. Williamson.....	Calif.....	22	14,375	Missouri Mtn.....	Colo.....	65	14,067
Blanca Peak.....	Colo.....	23	14,345	Humboldt Peak.....	Colo.....	66	14,064
La Plata Peak.....	Colo.....	24	14,336	Mt. Bierstadt.....	Colo.....	67	14,060
Uncompahgre Peak.....	Colo.....	25	14,309	Sunlight Peak.....	Colo.....	68	14,059
Crestone Peak.....	Colo.....	26	14,294	Split Mtn.....	Calif.....	69	14,058
Mt. Lincoln.....	Colo.....	27	14,286	Hanides Peak.....	Colo.....	70	14,048
Grays Peak.....	Colo.....	28	14,270	Mt. Lindsey.....	Colo.....	71	14,042
Mt. Antero.....	Colo.....	29	14,269	Middle Palisade.....	Calif.....	72	14,040
Torreys Peak.....	Colo.....	30	14,267	Little Bear Peak.....	Colo.....	73	14,037
Castle Peak.....	Colo.....	31	14,265	Mt. Sherman.....	Colo.....	74	14,036
Mt. Evans.....	Colo.....	32	14,264	Redcloud Peak.....	Colo.....	75	14,034
Quandary Peak.....	Colo.....	33	14,264	Mt. Langley.....	Calif.....	76	14,028
Longs Peak.....	Colo.....	34	14,256	Mt. Tyndall.....	Calif.....	77	14,018
Mt. Wilson.....	Colo.....	35	14,246	Pyramid Peak.....	Colo.....	78	14,018
White Mtn. Peak.....	Calif.....	36	14,246	Wetterhorn Peak.....	Colo.....	79	14,017
North Palisade.....	Calif.....	37	14,242	Wilson Peak.....	Colo.....	80	14,017
Shavano Peak.....	Colo.....	38	14,229	Mt. Muir.....	Calif.....	81	14,015
Mt. Belford.....	Colo.....	39	14,197	North Maroon Peak.....	Colo.....	82	14,014
Mt. Princeton.....	Colo.....	40	14,197	San Luis Peak.....	Colo.....	83	14,014
Mt. Yule.....	Colo.....	41	14,196	Huron Peak.....	Colo.....	84	14,005
Crestone Needles.....	Colo.....	42	14,191	Mt. of the Holy Cross.....	Colo.....	85	14,005
Mt. Bross.....	Colo.....	43	14,172	Sunshine Peak.....	Colo.....	86	14,001
Kit Carson Peak.....	Colo.....	44	14,165				

Source: Dept. of the Interior, Geological Survey; *Elevations and Distances in the United States*, 1909.

No. 259. EXTREME AND MEAN ELEVATIONS—STATES AND OTHER AREAS
[In feet]

STATE OR OTHER AREA	HIGHEST POINT		LOWEST POINT		Approximate mean elevation
	Name	Elevation	Name	Elevation	
United States	Mount McKinley	20,320	Death Valley	-282	2,500
Alabama	Cheaha Mountain	2,407	Gulf of Mexico	(¹)	500
Alaska	Mount McKinley	20,320	Pacific Ocean	(¹)	1,900
Arizona	Humphreys Peak	12,633	Colorado River	70	4,100
Arkansas	Magazine Mountain	2,753	Ouachita River	55	680
California	Mount Whitney	14,494	Death Valley	-282	2,900
Colorado	Mount Elbert	14,433	Arkansas River	3,350	6,800
Connecticut	Mt. Frissell, on South slope	2,380	Long Island Sound	(¹)	500
Delaware	Ebright Road	442	Atlantic Ocean	(¹)	60
District of Columbia	Tenleytown	410	Potomac River	1	150
Florida	Sec. 30, T6N, R20W, Walton County ²	345	Atlantic Ocean	(¹)	100
Georgia	Brasstown Bald	4,784	Atlantic Ocean	(¹)	600
Hawaii	Mauna Kea	13,796	Pacific Ocean	(¹)	3,030
Idaho	Borah Peak	12,662	Snake River	710	5,000
Illinois	Charles Mound	1,235	Mississippi River	279	600
Indiana	Franklin Twp., Wayne Co.	1,257	Ohio River	320	700
Iowa	Ocheyedan Mound, Osceola County	1,675	Mississippi River	480	1,100
Kansas	Mount Sunflower	4,030	Vermiglis River	880	2,000
Kentucky	Black Mountain	4,145	Mississippi River	257	750
Louisiana	Driskill Mountain	537	New Orleans	-5	100
Maine	Mount Katahdin	5,268	Atlantic Ocean	(¹)	600
Maryland	Backbone Mountain, near Kemptown, W. Va.	3,360	Atlantic Ocean	(¹)	350
Massachusetts	Mount Greylock	3,491	Atlantic Ocean	(¹)	500
Michigan	Mount Curwood	1,980	Lake Erie	572	900
Minnesota	Eagle Mountain, Cook Co.	2,301	Lake Superior	602	1,200
Mississippi	Woodall Mountain, near Iuka	806	Gulf of Mexico	(¹)	300
Missouri	Taum Sauk Mountain	1,772	St. Francis River	230	800
Montana	Granite Peak	12,799	Kootenai River	1,800	3,400
Nebraska	Johnson Twp., Kimball Co., T12N, R59W ²	5,426	Southeast corner of State	840	2,600
Nevada	Boundary Peak	13,140	Colorado River	470	5,500
New Hampshire	Mount Washington	6,288	Atlantic Ocean	(¹)	1,000
New Jersey	High Point	1,803	Atlantic Ocean	(¹)	250
New Mexico	Wheeler Peak	13,161	Red Bluff Reservoir	2,817	5,700
New York	Mount Marcy	5,344	Atlantic Ocean	(¹)	1,000
North Carolina	Mount Mitchell	6,684	Atlantic Ocean	(¹)	700
North Dakota	White Butte, Slope Co.	3,500	Red River	750	1,900
Ohio	Campbell Hill	1,550	Ohio River	433	850
Oklahoma	Black Mesa	4,973	Little River	287	1,300
Oregon	Mount Hood	11,235	Pacific Ocean	(¹)	3,300
Pennsylvania	Mount Davis	3,213	Delaware River	(¹)	1,100
Rhode Island	Jerimoth Hill	812	Atlantic Ocean	(¹)	200
South Carolina	Sassafras Mountain	3,560	Atlantic Ocean	(¹)	350
South Dakota	Harnay Peak	7,242	Big Stone Lake	982	2,200
Tennessee	Clingmans Dome	6,643	Mississippi River	182	900
Texas	Guadalupe Peak	8,751	Gulf of Mexico	(¹)	1,700
Utah	Kings Peak	13,628	Beaverdam Creek	2,000	6,100
Vermont	Mount Mansfield	4,393	Lake Champlain	95	1,000
Virginia	Mount Rogers	5,729	Atlantic Ocean	(¹)	950
Washington	Mount Rainier	14,410	Pacific Ocean	(¹)	1,700
West Virginia	Spruce Knob	4,862	Potomac River	240	1,500
Wisconsin	Timms Hill	1,952	Lake Michigan	581	1,050
Wyoming	Gannett Peak	13,785	Belle Fourche River	3,100	6,700
Other areas:					
Puerto Rico	Cerro de Punta	4,389	Atlantic Ocean	(¹)	1,800
American Samoa	Lata Mountain	3,160	Pacific Ocean	(¹)	1,300
Canal Zone	Cerro Galera	1,205	Atlantic Ocean	(¹)	280
Guam	Mount Lamlam	1,329	Pacific Ocean	(¹)	330
Virgin Islands	Crown Mountain	1,556	Atlantic Ocean	(¹)	750

¹ Sea level. ² "Sec." denotes section; "T," township; "R," range; "N," north; "W," west.

Source: Dept. of the Interior, Geological Survey; *Elevations and Distances in the United States*, 1969.

No. 260. TORNADOES, FLOODS, AND TROPICAL CYCLONES: 1931 TO 1969

PERIOD OR YEAR	TORNADOES			FLOODS		NORTH ATLANTIC TROPICAL CYCLONES AND HURRICANES ¹		
	Number	Lives lost		Number with property loss of \$500,000 and over	Lives lost	Property loss (mil. dol.)	Number reaching U.S. coast	
		Total	Most in a single tornado during period				Total	Hurricanes only
1931-35	830	909	37	15	368	187	21	12
1936-40	787	916	216	17	607	879	21	8
1941-45	727	980	100	39	346	605	20	11
1946-50	902	813	169	50	306	843	22	12
1951-55	2,037	940	116	80	502	2,507	18	9
1956-60	3,108	445	44	80	228	877	20	7
1961-65	3,413	482	44	94	329	1,844	13	8
1966	618	47	10	12	32	93	5	2
1967	683	51	16	22	52	154	3	2
1968	658	28	17	10	19	75	1	4
1969	461	31	5	15	39	176	1	1
1970	713	73	22	17	100	651	6	4
1971	808	209	44	30	110	788	2	1
1972	570	105	58	17	31	117	2	2
1973	912	116	33	41	34	375	2	2
1974	680	131	34	26	31	339	5	2
1975 est.	522	64	32	19	(NA)	(NA)	1	1
								137

⁻ Represents zero. NA. Not available. ¹ Tropical cyclones have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher.

Source: Dept. of Commerce, Environmental Science Services Administration; *Climatological Data National Summary*. Monthly with annual summary.

No. 261. INVENTORY OF PUBLIC WATER SUPPLIES FOR COMMUNITY WATER SYSTEMS: 1963

[Includes only systems serving a population of 25,000 or more. Estimated total number of public water systems in the United States (conterminous area) is 21,000, serving a population of approximately 144 million. An estimated 16.0 percent of water used by manufacturing industries is supplied by public water systems]

ITEM	Total	COMMUNITIES HAVING A POPULATION SERVED OF—				
		500,000 or more	250,000-499,999	100,000-249,999	50,000-99,999	25,000-49,999
Communities and districts—number	928	43	35	137	251	460
Estimated population served—1,000	104,810	50,048	9,977	18,525	12,372	13,288
Ownership of public water supply—number	926	43	35	137	251	460
Municipal or district—public—number	772	38	27	113	215	379
Private—number	154	5	8	24	36	81
Average output of water ¹ —mil. gal. daily	15,634	7,614	1,481	2,047	1,725	1,927
Water used, maximum month ¹ —mil. gal.	621,666	304,701	57,453	113,707	68,010	77,735
Water used, maximum day ¹ —mil. gal.	25,287	11,994	2,416	4,771	2,850	3,260
Impounded storage—mil. gal.	5,982,917	2,440,578	585,871	1,232,258	506,462	1,217,748
Transmission capacity, maximum mil. gal. daily	32,770	10,414	3,588	4,293	3,000	2,525
Dependable yield, ground water mil. gal. daily	8,300	1,337	857	1,972	1,550	2,584
Raw water storage—mil. gal.	378,062	311,943	50,751	1,960	10,703	2,705
Raw water pumping capacity—mil. gal. daily	25,858	12,899	2,174	5,116	2,990	2,879
Treatment plant:						
Rated capacity—mil. gal. daily	25,511	12,125	2,586	4,593	2,870	3,337
Overload capacity ¹ —mil. gal. daily	31,176	13,701	3,018	7,177	3,428	3,864
Service pumping capacity—mil. gal. daily	31,412	13,766	3,226	6,659	3,942	3,819
Distribution storage:						
Pumped to mains—mil. gal.	8,558	2,104	443	1,361	1,610	950
Elevated—mil. gal.	76,188	58,135	1,706	11,515	2,521	2,311
Number of services ¹ —1,000	23,933	8,732	2,384	4,881	3,704	4,282
Number of meters ¹ —1,000	21,317	7,080	2,359	4,481	3,495	3,895

¹ Approximately 5 percent estimated.

Source: Dept. of Commerce, Business and Defense Services Administration. Compiled from unpublished data provided by Dept. of Health, Education, and Welfare, Public Health Service.

Water Use

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No. 262. ESTIMATED WATER USE: 1900 TO 1969, AND PROJECTIONS TO 1980

[In billions of gallons daily average. In preparing these projections, it was estimated that the population residing in the United States (conterminous area) would grow from 176.2 million in 1959 to 230.8 million in 1980, and that the index of industrial production would rise from approximately 152 to 330 in the same period. See also *Historical Statistics, Colonial Times to 1957*, series J 91-102.]

YEAR	TOTAL WATER USE		IRRIGATION 1		PUBLIC WATER UTILITIES		SELF-SUPPLIED USES					
							Rural domestic 2		Industrial and miscellaneous 3		Steam electric utilities	
	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground
1900	40.19	7.28	20.19	2.22	3.00	1.05	2.00	1.60	10.00	2.40	5.00	0.01
1910	65.44	11.68	39.04	5.27	4.70	1.49	2.20	1.76	14.00	3.15	6.50	0.01
1920	91.54	15.78	55.94	8.17	6.00	1.79	2.40	1.94	18.00	3.87	9.20	0.01
1930	110.50	18.18	60.20	9.09	8.00	2.30	2.90	2.40	21.00	4.37	18.40	0.02
1940	136.43	22.56	71.03	11.22	10.10	2.82	3.10	2.64	29.00	5.86	23.20	0.02
1950	202.70	35.19	100.00	19.80	14.10	3.78	4.60	4.00	38.10	7.47	45.90	0.05
1960	322.90	58.17	135.00	35.24	22.00	5.68	6.00	5.58	61.20	11.57	98.70	0.10
1965	371.70	66.30	148.10	40.14	25.00	6.28	6.50	6.14	73.20	13.82	118.90	0.12
1969	403.30	71.87	156.82	43.39	26.60	6.56	6.82	6.47	83.44	15.32	129.62	0.13
1970	411.20	73.27	159.00	44.20	27.00	6.64	6.90	6.56	86.00	15.74	132.30	0.13
1975	449.70	79.37	169.70	47.52	29.80	7.15	7.20	6.85	98.40	17.71	144.60	0.14
1980	494.10	84.94	178.00	50.02	32.00	7.36	7.40	7.04	115.00	20.36	161.70	0.16

¹ Total take, including delivery losses but not including reservoir evaporation.

² Rural farm and nonfarm household and garden use, and water for farm stock and dairies.

³ Manufacturing and mineral industries, rural commercial industries, air-conditioning, resorts, hotels, motels, military and other State and Federal agencies, and other miscellaneous uses.

Source: Dept. of Commerce, Business and Defense Services Administration; *Water Use in the United States, 1900-1980*, and unpublished data.

No. 263. POPULATION USING FLUORIDATED WATER—STATES AND PUERTO RICO: 1969

[As of December 31. Covers both natural and controlled fluoridation]

STATE OR OTHER AREA	TOTAL POPULATION 1		POPULATION USING PUBLIC WATER 2		STATE OR OTHER AREA	TOTAL POPULATION 1		POPULATION USING PUBLIC WATER 2	
	Number (1,000)	Percent using fluoridation	Number (1,000)	Percent using fluoridation		Number (1,000)	Percent using fluoridation	Number (1,000)	Percent using fluoridation
Total	205,757	43.0	158,400	55.9	Montana	695	18.9	470	28.0
Alabama	3,518	25.4	2,230	40.1	Nebraska	1,452	37.4	1,044	52.0
Alaska	287	43.5	158	78.8	Nevada	461	3.4	392	4.0
Arizona	1,708	18.1	1,517	20.4	New Hampshire	725	8.8	477	13.4
Arkansas	2,000	34.9	1,984	64.3	New Jersey	7,174	12.7	6,206	14.5
California	19,518	14.8	18,142	15.9	New Mexico	988	39.8	722	54.4
Colorado	2,128	69.2	1,754	84.0	New York	18,452	65.8	16,174	75.1
Connecticut	3,017	72.2	2,410	90.4	North Carolina	5,244	37.4	2,654	73.9
Delaware	543	40.0	401	54.1	North Dakota	609	47.1	323	88.8
Dist. of Columbia	793	100.0	793	100.0	Ohio	10,823	36.7	8,406	47.2
Florida	6,454	27.2	4,996	35.2	Oklahoma	2,502	50.8	1,993	67.0
Georgia	4,678	46.5	3,251	66.9	Oregon	2,045	15.9	1,555	20.9
Hawaii	800	12.7	774	13.1	Pennsylvania	11,846	39.4	9,622	49.0
Idaho	725	16.8	477	25.5	Rhode Island	908	80.3	813	89.8
Illinois	11,079	76.7	9,365	90.8	South Carolina	2,707	35.6	1,523	63.2
Indiana	5,150	55.8	3,400	86.0	South Dakota	660	25.5	387	43.5
Iowa	2,782	63.6	1,903	78.3	Tennessee	3,990	42.8	2,602	65.7
Kansas	2,323	44.3	1,781	58.0	Texas	11,294	49.0	9,102	60.8
Kentucky	3,239	44.1	1,854	77.0	Utah	1,061	2.4	974	2.6
Louisiana	3,755	7.3	2,822	9.7	Vermont	446	26.3	260	45.1
Maine	970	29.6	587	49.4	Virginia	4,707	59.6	3,010	93.2
Maryland	3,769	76.3	2,945	97.7	Washington	3,464	38.1	2,849	46.8
Massachusetts	5,468	9.3	5,087	10.0	West Virginia	1,828	50.0	1,129	80.9
Michigan	8,785	62.7	6,158	89.5	Wisconsin	4,238	69.6	2,745	93.5
Minnesota	8,728	52.4	2,253	86.7	Wyoming	323	26.9	242	36.0
Mississippi	2,370	20.1	1,192	40.0	Puerto Rico	2,769	66.7	2,001	92.8
Missouri	4,665	42.5	3,431	57.8					

¹ Estimates based on Bureau of the Census, *Current Population Reports* (Series P-25, No. 430) and *U.S. Census of Population: 1960*, Final Report PC (1).

² Source: U.S. Census of Housing: 1960, Series HC(1), Nos. 1-52. Includes adjustments for population growth based on Bureau of the Census estimates.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Fluoridation Census, 1969*.

No. 264. AIR POLLUTANT EMISSIONS: 1968
 [Quantity in millions of tons per year. Estimates]

SOURCE CATEGORY	Total	TYPE				
		Carbon monoxide	Sulfur oxides	Hydrocarbons	Particulates	Nitrogen oxides
QUANTITY						
Total.....	213.8	100.1	32.8	32.0	28.3	20.6
Transportation.....	90.5	63.8	0.8	10.0	1.2	8.1
Fuel combustion (stationary).....	45.5	1.9	24.0	0.7	8.9	10.0
Industrial processes.....	29.3	9.7	7.3	4.6	7.5	0.2
Refuse disposal.....	11.2	7.8	0.1	1.6	1.1	0.6
Miscellaneous.....	37.3	16.9	0.6	8.5	9.6	1.7
PERCENT						
Of total, by source.....	100.0	100.0	100.0	100.0	100.0	100.0
Transportation.....	42.3	63.7	2.4	51.9	4.2	39.3
Fuel combustion (stationary).....	21.3	1.9	73.2	2.2	31.5	48.5
Industrial processes.....	13.7	9.7	22.3	14.4	26.5	1.0
Refuse disposal.....	5.2	7.8	0.3	5.0	3.0	2.9
Miscellaneous.....	17.5	10.9	1.8	26.5	33.9	8.3
Of total, by type.....	100.0	46.8	15.3	15.0	13.2	9.6
Transportation.....	100.0	70.5	0.9	18.3	1.3	9.0
Fuel combustion (stationary).....	100.0	4.2	52.7	1.5	19.6	22.0
Industrial processes.....	100.0	33.1	24.0	15.7	25.6	0.7
Refuse disposal.....	100.0	69.6	0.9	14.3	9.8	5.4
Miscellaneous.....	100.0	45.3	1.6	22.8	25.7	4.6

Source: Dept. of Health, Education, and Welfare, Public Health Service; unpublished data.

No. 265. SOLID WASTE COLLECTED—URBAN AND RURAL, BY ORIGIN: 1967
 [Pounds per person per day. Annual averages]

ORIGIN	Total	Urban	Rural	ORIGIN	Total	Urban	Rural
Total.....	5.18	5.60	3.72	Demolition, construction.....	0.13	0.16	0.08
Household and commercial.....	3.86	4.01	3.30	Street and alley.....	0.06	0.07	0.03
Industrial.....	0.96	1.17	0.22	Miscellaneous.....	0.17	0.10	0.14

Source: Dept. of Health, Education, and Welfare, Public Health Service; *An Interim Report, 1968 National Survey of Community Solid Waste Practices*.

No. 266. SUSPENDED PARTICULATE MATTER LEVELS IN CITIES, BY POPULATION SIZE GROUPS: 1968

[*Particulate matter levels in micrograms per cubic meter. Based on 13,584 air samples taken in 305 cities. Suspended particulate matter: Particles of smoke, dust, and fumes and droplets of viscous liquid remaining in the air for varying periods of time and ranging from less than 1 micron (1/25,000 inch) to 100 microns*]

POPULATION SIZE GROUP	Cities sampled	BY AVERAGE PARTICULATE MATTER LEVELS					
		20-59	60-99	100-139	140-179	180-219	220 and over
Total.....	305	41	160	78	18	2	6
2,500-49,999.....	135	33	75	21	2	-	4
50,000-99,999.....	64	3	33	22	5	-	1
100,000-399,999.....	73	4	36	25	6	1	1
400,000-699,999.....	21	1	12	5	2	1	-
700,000-999,999.....	7	-	4	2	1	-	-
1,000,000 and over.....	5	-	-	3	2	-	-

- Represents zero.

Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Air Quality Data*; and unpublished data.

No. 267. SUSPENDED PARTICULATE MATTER LEVELS, BY NONURBAN TOPOGRAPHIC CLASS: CUMULATIVE AVERAGE, 1958-67 AND 1968

[In micrograms per cubic meter. Based on 6,400 air samples taken at nonurban locations. See headnote, table 266]

TOPOGRAPHIC CLASS	NUMBER OF STATIONS		SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER ¹		
	1958-67	1968	Average, 1958-67	1968			Average, 1958-67	1968 average ²
				Min.	Max.	Avg.		
United States	351	28	34	1	226	29	1.9	1.7
Atlantic coast	5	2	37	4	226	42	1.8	1.6
Desert	4	3	23	1	126	18	1.4	1.2
Farmland	12	7	43	2	224	37	2.5	2.3
Forest	7	5	29	2	50	21	1.7	1.7
Great Lakes coast	5	2	38	4	102	27	1.7	1.3
Gulf coast	4	2	34	5	45	26	2.5	2.5
Mountain	9	5	25	2	80	21	1.5	1.6
Pacific coast	5	2	51	2	137	53	2.3	1.7

¹ Particulate matter soluble in benzene. ² Based on quarterly composite analyses.

³ Data for all stations not available for all years.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, 1967-1961*; annual report, *Air Quality Data*; and unpublished data.

No. 268. BETA RADIOACTIVITY CONCENTRATIONS IN AIR, BY MONTH: 1965 TO 1968

[In micromicrocuries per cubic meter]

MONTH	1965			1966			1967			1968		
	Min- imum	Max- imum	Aver- age									
January	1 0.1	1.8	0.2	1 0.1	0.2	1 0.1	(2)	110.4	1.5	(2)	21.5	1.0
February	1 0.1	2.8	0.3	1 0.1	0.5	1 0.1	(2)	2.0	0.2	(2)	18.4	1.0
March	1 0.1	1.3	0.3	1 0.1	0.5	1 0.1	(2)	1.0	0.2	(2)	13.7	1.0
April	1 0.1	197	0.4	1 0.1	19.0	0.1	(2)	0.6	0.1	(2)	13.2	1.1
May	1 0.1	17.4	0.4	1 0.1	14.9	0.4	(2)	0.8	1 0.1	(2)	17.0	1.1
June	1 0.1	9.5	0.6	1 0.1	2.3	0.3	(2)	0.8	1 0.1	(2)	21.2	1.1
July	1 0.1	1.1	0.2	1 0.1	1.7	0.1	(2)	0.5	1 0.1	(2)	10.0	1.0
August	1 0.1	0.4	0.1	1 0.1	0.3	1 0.1	(2)	50.8	1.3	(2)	11.0	1.0
September	1 0.1	0.3	1 0.1	1 0.1	0.4	1 0.1	(2)	15.0	1.2	(2)	12.0	2.0
October	1 0.1	0.3	1 0.1	1 0.1	0.3	1 0.1	(2)	11.6	1.0	(2)	15.0	2.0
November	1 0.1	0.3	1 0.1	1 0.1	28.7	0.4	(2)	19.0	1.0	(2)	15.0	1.0
December	1 0.1	0.3	1 0.1	1 0.1	0.6	1 0.1	(2)	28.0	1.0	(2)	457	1.0

¹ Less than value shown. ² Less than minimum detectable amount.

Source: Dept. of Health, Education, and Welfare, Public Health Service; monthly report, *Radiological Health Data*.

No. 269. GASEOUS AIR POLLUTANT LEVELS, SELECTED CITIES: 1968

[Concentration in parts per million. Concentrations of gaseous contaminants are continuously measured in the indicated cities in order to provide basic data on the nature and extent of urban area pollution]

CITY	Maxi- mum day	Min- imum month	Maxi- mum month	Yearly aver- age	Maxi- mum day	Min- imum month	Maxi- mum month	Yearly aver- age	Maxi- mum day	Min- imum month	Maxi- mum month	Yearly aver- age	
	SULFUR DIOXIDE				NITRIC OXIDE				NITROGEN DIOXIDE				
Chicago	0.51	0.03	0.27	0.12	0.23	0.04	0.11	0.07	0.10	0.04	0.06	0.05	
Cincinnati	0.08	0.01	0.03	0.02	(1)	(1)	(1)	(1)	0.10	0.02	0.05	0.03	
Philadelphia	0.36	0.04	0.16	0.08	0.37	0.02	0.10	0.05	0.09	0.02	0.05	0.04	
Denver	0.05	0.00	0.03	0.01	0.21	0.01	0.07	0.04	0.12	0.03	0.05	0.04	
St. Louis	0.16	0.01	0.06	0.03	0.13	0.02	0.05	0.03	0.05	0.01	0.04	0.02	
Washington, D.C.	0.18	0.00	0.10	0.04	0.31	0.02	0.08	0.04	0.08	0.04	0.05	0.05	
CARBON MONOXIDE				TOTAL OXIDANTS				TOTAL HYDROCARBONS					
Chicago	16	4.9	7.1	0.2	0.11	0.01	0.04	0.02	5.4	2.4	3.4	2.9	
Cincinnati	32	3.5	7.7	5.6	(1)	0.08	0.02	0.03	5.6	2.2	3.2	2.6	
Philadelphia	(1)	(1)	(1)	(1)	0.08	0.02	0.03	0.02	4.8	1.8	2.5	2.2	
Denver	21	4.3	7.3	5.4	0.08	0.02	0.04	0.03	6.4	2.1	4.2	2.9	
St. Louis	9	3.8	5.6	4.6	0.05	0.02	0.03	0.02	9.8	2.1	4.8	3.4	
Washington, D.C.	14	1.9	6.6	3.4	0.10	0.01	0.04	0.03	5.7	1.9	3.0	2.2	

¹ Insufficient data.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Annual Data Tabulations, Continuous Air Monitoring Projects, 1969*.

No. 270. AIR POLLUTION—NATIONAL AIR SAMPLING LEVELS, SELECTED CITIES: 1968

[In micrograms per cubic meter. Air pollution is defined as the presence in the air of substances put there by the activities of man, in concentrations sufficient to interfere with comfort, safety, or health or with use and enjoyment of property. Data represent values of samples taken nationally on a biweekly basis by the National Air Pollution Control Administration. See text, p. 164.]

STATION	SUSPENDED PARTICULATE MATTER ¹			BENZENE-SOLUBLE ORGANIC MATTER ²					
	Min.	Max.	Arith. avg.	1st qtr.	2d qtr.	3d qtr.	4th qtr.	Arith. avg.	
Arizona—Phoenix	68	234	150	13.8	8.4	6.9	20.5	11.9	
California—Los Angeles	63	272	135	17.6	8.6	9.9	23.7	15.0	
Oakland	42	248	92	11.5	3.8	4.8	7.6	6.9	
San Diego	27	161	69	4.3	2.1	3.4	14.0	8.0	
San Francisco	30	163	92	10.6	4.6	5.0	10.6	7.7	
Colorado—Denver	36	471	131	19.5	6.8	9.4	15.3	13.1	
Connecticut—Hartford	28	165	67	6.2	3.2	4.0	4.5	4.5	
New Haven	32	145	74	4.9	4.3	4.7	5.9	5.0	
Delaware—Wilmington	79	261	125	11.9	7.3	7.3	8.7	8.8	
Dist. of Columbia—Washington	27	176	92	7.6	6.3	6.4	7.8	7.0	
Florida—Miami	22	94	40	(NA)	(NA)	(NA)	(NA)	(NA)	
Georgia—Atlanta	23	181	90	7.2	5.6	5.6	33.5	13.0	
Hawaii—Honolulu	24	83	45	2.7	2.3	2.2	3.8	2.8	
Idaho—Boise	25	154	67	7.9	3.1	4.5	5.7	5.3	
Illinois—Chicago	44	257	124	9.1	7.1	8.4	7.0	7.4	
Indiana—Indianapolis	65	252	128	7.8	8.0	10.5	8.6	8.7	
Iowa—Des Moines	43	240	100	5.1	3.8	4.6	4.0	4.4	
Kansas—Wichita	25	99	66	3.2	2.5	3.2	4.6	3.4	
Kentucky—Louisville	74	416	176	8.9	6.9	6.5	9.1	7.0	
Louisiana—New Orleans	51	150	87	9.0	8.5	9.1	8.2	8.7	
Maryland—Baltimore	36	276	110	9.6	4.5	7.9	8.1	7.5	
Michigan—Detroit	42	300	154	10.7	4.9	5.5	8.3	7.4	
Minnesota—Minneapolis	28	361	84	4.1	4.3	3.8	4.6	4.2	
St. Paul	31	307	104	6.9	5.4	4.8	4.9	5.5	
Mississippi—Jackson	28	154	80	6.4	5.5	4.8	7.8	6.1	
Missouri—Kansas City	25	242	105	6.1	4.0	6.0	9.0	6.5	
St. Louis	45	378	148	(NA)	(NA)	(NA)	(NA)	(NA)	
Montana—Helena	12	202	52	5.0	1.3	2.8	2.5	2.9	
Nebraska—Omaha	57	353	161	7.6	9.0	6.8	5.0	7.3	
Nevada—Las Vegas	51	190	108	8.5	4.9	3.5	12.8	7.3	
New Hampshire—Concord	12	88	33	5.6	2.6	2.2	2.3	3.2	
New Jersey—Newark	32	200	93	9.5	6.8	5.8	6.1	7.1	
New York—New York	49	241	127	8.9	10.3	9.8	8.5	9.3	
Rochester	38	275	116	8.9	9.8	6.9	5.1	7.5	
North Carolina—Charlotte	42	492	130	17.1	4.4	5.1	7.2	8.5	
North Dakota—Bismarck	27	266	84	3.8	3.1	2.6	4.0	3.4	
Ohio—Cincinnati	31	227	110	12.4	5.9	4.9	4.9	7.0	
Cleveland	60	233	139	9.4	7.0	8.1	6.1	7.7	
Columbus	38	147	66	6.1	5.1	3.7	6.2	5.3	
Oklahoma—Oklahoma City	21	105	53	3.7	2.8	2.0	4.7	3.5	
Oregon—Portland	16	327	79	8.8	3.9	5.1	7.2	6.3	
Pennsylvania—Philadelphia	24	331	125	11.8	7.2	7.8	7.0	8.5	
Pittsburgh	69	385	180	11.9	9.8	7.1	8.2	9.3	
Rhode Island—Providence	47	167	92	8.0	6.6	6.1	6.1	6.9	
South Dakota—Sioux Falls	28	392	69	5.9	3.8	2.3	2.8	3.6	
Tennessee—Memphis	22	187	81	6.9	4.2	4.5	3.7	4.8	
Nashville	43	306	116	11.6	8.8	7.1	11.2	9.7	
Texas—Dallas	27	152	76	8.4	3.6	4.6	7.1	5.4	
Houston	40	194	79	4.5	2.7	4.0	8.6	5.0	
San Antonio	28	198	63	4.2	3.0	2.9	7.6	4.4	
Salt Lake City	23	206	76	5.9	1.9	2.4	4.5	3.7	
Vermont—Burlington	19	77	44	3.5	1.8	2.4	2.4	2.6	
Virginia—Norfolk	46	172	101	8.2	4.6	3.9	5.8	5.0	
Washington—Seattle	30	210	73	9.8	2.0	5.5	8.0	6.4	
West Virginia—Charleston	43	977	306	8.7	5.1	4.3	6.2	6.1	
Wisconsin—Milwaukee	49	433	165	7.4	6.0	4.8	8.6	6.7	
Wyoming—Cheyenne	12	99	32	2.3	2.1	1.6	2.6	2.2	

NA Not available.

¹ For definition, see headnote, table 266.² Particulate matter soluble in benzene.³ 1967 data.Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Air Quality Data*.

No. 271. GROUND ELEVATION OF WEATHER STATIONS AND OCCURRENCE OF FREEZE—
SELECTED CITIES

[Date of freeze based on 30-year period, 1921–1950, except as indicated]

STATION	Ground elevation (feet)	OCCURRENCE OF FREEZE, 32° F.				Mean number of days minimum temperature 32° F. or less	Length of record (yrs.) ¹		
		Spring date		Fall date					
		Mean	Latest	Mean	Earliest				
Ala. Mobile	10	Feb. 17	Mar. 20	Dec. 12	Nov. 15	22	6		
Alaska Juneau ²	15	May 13	June 7	Sept. 25	Sept. 7	149	25		
Ariz. Phoenix ²	1,083	Feb. 2	Mar. 14	Dec. 6	Nov. 5	17	8		
Ark. Little Rock ²	267	Mar. 17	Apr. 14	Nov. 10	Oct. 22	68	8		
Calif. Los Angeles ²	312	Jan. 1	Jan. 21	Dec. 30	Dec. 9	—	9		
Sacramento ²	25	Feb. 2	Apr. 8	Dec. 7	Nov. 4	20	8		
San Francisco ²	52	Jan. 17	Mar. 3	Dec. 22	Nov. 25	4	5		
Colo. Denver	5,221	May 2	May 28	Oct. 14	Sept. 18	164	8		
Conn. Hartford	169	Apr. 22	May 10	Oct. 10	Sept. 27	138	9		
Del. Wilmington	73	Apr. 18	May 9	Oct. 26	Sept. 27	104	21		
D.C. Washington	72	Apr. 10	May 12	Oct. 28	Oct. 2	81	8		
Fla. Jacksonville	18	Feb. 6	May 14	Dec. 16	Nov. 9	11	27		
Miami	8	(3)		Feb. 8	(3)	(3)	4		
Ga. Atlanta ²	1,054	Mar. 19	Mar. 29	Nov. 10	Oct. 28	61	8		
Hawaii Honolulu	12	(4)	(4)	(4)	(4)	(4)	6		
Idaho Boise	2,842	Apr. 29	May 23	Oct. 16	Sept. 20	127	29		
Ill. Chicago ²	610	Apr. 19	May 4	Oct. 28	Oct. 7	117	5		
Ind. Peoria	664	Apr. 22	May 13	Oct. 20	Sept. 25	131	9		
Iowa Des Moines ²	718	Apr. 17	May 11	Oct. 27	Oct. 1	120	9		
Kans. Wichita	307	Apr. 19	May 11	Oct. 22	Sept. 28	140	7		
Ky. Louisville	1,321	Apr. 5	Apr. 21	Nov. 1	Sept. 27	111	15		
La. New Orleans	457	Apr. 1	Apr. 19	Nov. 7	Oct. 15	97	8		
Maine Portland	61	Apr. 29	May 30	Oct. 15	Sept. 17	162	28		
Md. Baltimore	146	Mar. 28	Apr. 16	Nov. 17	Oct. 20	103	18		
Mass. Boston ²	15	Apr. 5	Apr. 15	Nov. 8	Oct. 22	94	10		
Mich. Detroit ²	610	Apr. 24	May 12	Oct. 22	Sept. 29	125	35		
Minn. Sault Ste. Marie ²	721	May 19	June 8	Sept. 28	Aug. 22	178	27		
Duluth	1,162	May 13	June 1	Oct. 3	Sept. 13	187	7		
Minneapolis	830	Apr. 30	May 24	Oct. 13	Sept. 18	160	9		
Miss. Jackson	305	Mar. 10	Apr. 13	Nov. 13	Oct. 17	64	5		
Mo. Kansas City ²	741	Apr. 6	Apr. 20	Oct. 30	Oct. 6	98	8		
St. Louis ²	465	Apr. 9	Apr. 25	Nov. 1	Oct. 7	106	8		
Mont. Great Falls	3,664	May 14	June 8	Sept. 26	Sept. 7	149	7		
Nebr. Omaha	978	Apr. 14	May 11	Oct. 18	Sept. 24	138	5		
Nev. Reno	4,397	May 14	June 21	Oct. 2	Aug. 30	191	5		
N.H. Concord	339	May 11	May 26	Sept. 30	Sept. 13	169	23		
N.J. Atlantic City ²	8	Mar. 31	Apr. 13	Nov. 11	Oct. 22	92	18		
N. Mex. Albuquerque	5,810	Apr. 16	May 18	Oct. 29	Oct. 11	116	8		
N.Y. Albany	19	Apr. 27	May 20	Oct. 13	Sept. 23	146	18		
Buffalo	693	Apr. 30	May 24	Oct. 25	Sept. 23	137	8		
New York	10	Apr. 7	Apr. 24	Nov. 12	Oct. 19	82	55		
N.C. Charlotte	727	Mar. 21	Apr. 16	Nov. 15	Oct. 15	74	8		
Raleigh	400	Mar. 24	Apr. 20	Nov. 16	Oct. 29	73	17		
N. Dak. Bismarck	1,650	May 11	May 30	Sept. 24	Sept. 6	189	9		
Ohio Cincinnati	761	Apr. 15	May 25	Oct. 25	Sept. 28	98	53		
Cleveland	787	Apr. 21	May 14	Nov. 2	Sept. 29	128	8		
Columbus	815	Apr. 17	May 9	Oct. 30	Oct. 7	123	0		
Okla. Oklahoma City	1,254	Mar. 28	Apr. 17	Nov. 7	Oct. 23	85	10		
Oreg. Portland ²	30	Feb. 22	May 2	Dec. 3	Oct. 30	44	28		
Pa. Philadelphia	26	Mar. 30	Apr. 20	Nov. 17	Oct. 19	108	9		
Pittsburgh	749	Apr. 16	May 4	Nov. 3	Oct. 10	127	9		
R.I. Providence	55	Apr. 13	Apr. 24	Oct. 27	Oct. 3	124	5		
S.C. Columbia	217	Mar. 14	Apr. 13	Nov. 21	Nov. 1	55	19		
S. Dak. Sioux Falls	1,420	May 5	May 29	Oct. 3	Sept. 12	174	5		
Tenn. Memphis	263	Mar. 20	Apr. 15	Nov. 12	Oct. 17	60	27		
Nashville	577	Mar. 28	Apr. 19	Nov. 7	Oct. 17	75	23		
Tex. Dallas ²	487	Mar. 18	Apr. 13	Nov. 12	Oct. 27	39	9		
El Paso ²	3,920	Mar. 14	Mar. 29	Nov. 12	Nov. 1	64	8		
Houston ²	41	Feb. 12	Mar. 27	Dec. 4	Nov. 3	13	8		
Utah Salt Lake City	4,260	Apr. 12	Apr. 30	Nov. 1	Sept. 25	141	9		
Vt. Burlington	331	May 8	May 23	Oct. 3	Sept. 13	156	18		
Va. Norfolk	26	Mar. 18	Apr. 14	Nov. 27	Nov. 7	56	20		
Richmond	162	Apr. 2	Apr. 20	Nov. 8	Oct. 21	85	39		
Wash. Seattle ²	14	Feb. 28	Apr. 2	Nov. 30	Oct. 19	33	9		
Spokane ²	2,857	Apr. 21	May 14	Oct. 8	Sept. 19	138	0		
W. Va. Charleston	950	Apr. 18	May 11	Oct. 28	Sept. 29	100	21		
Wis. Milwaukee	672	Apr. 20	May 9	Oct. 25	Sept. 24	147	8		
Wyo. Cheyenne	6,131	May 20	June 18	Sept. 27	Sept. 5	171	9		
P.R. San Juan	47	(4)	(4)	(4)	(4)	(4)	13		

¹ Represents zero. ² Period ending in 1968, except as otherwise noted.

² Period of record 1931–1960.

³ When the frequency of occurrence in either spring or fall is 1 year in 10, or less, mean dates are not given.

⁴ 32° F. has never been recorded. ⁵ Period ending in 1968. ⁶ Period ending in 1961.

Source: Dept. of Commerce, Environmental Science Services Administration; *Climates of the States*.

No. 272. NORMAL MONTHLY AVERAGE TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960.
See *Historical Statistics, Colonial Times to 1957*, series J 103-135 and J 163-265, for related data.]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.--- Mobile	53.0	55.2	60.3	67.6	75.6	81.5	82.6	82.1	77.9	60.9	58.9	54.1	68.2
Alaska.--- Juneau	25.1	28.8	30.4	38.0	45.6	52.8	55.3	54.1	48.9	41.6	34.3	28.4	40.1
Ariz.--- Phoenix	49.7	53.5	59.0	67.2	75.0	82.0	80.8	87.5	82.8	70.7	58.1	51.6	69.0
Ark.--- Little Rock	40.6	44.4	51.8	62.4	70.5	78.9	81.9	81.3	74.3	63.1	49.5	41.9	61.7
Calif.--- Los Angeles	54.4	55.2	57.0	59.4	62.0	64.8	66.1	69.1	68.5	64.9	61.1	56.9	61.9
Sacramento	45.2	49.2	53.4	58.4	64.0	70.5	75.4	74.1	71.6	63.5	52.9	46.4	60.4
San Francisco ¹	50.7	53.0	64.7	55.7	57.4	59.1	58.8	59.4	62.0	61.4	57.4	52.5	56.8
Colo.--- Denver	28.5	31.5	36.4	46.4	56.2	60.5	72.9	71.5	75.1	63.0	51.4	37.7	31.0
Conn.--- Hartford	26.0	27.1	36.0	48.5	59.9	68.7	73.4	71.2	63.3	53.0	41.3	28.9	40.8
Del.--- Wilmington	33.4	33.8	41.3	52.1	62.7	71.4	76.0	74.3	67.6	56.6	45.4	35.1	54.1
D.C.--- Washington	36.9	37.8	44.8	55.7	65.8	74.2	78.2	76.5	69.7	59.0	47.7	38.1	57.0
Fla.--- Jacksonville	55.9	57.5	62.2	68.7	75.8	80.8	82.6	82.3	79.4	71.0	61.7	56.1	69.5
Miami	65.9	67.9	70.5	74.2	77.0	80.8	81.8	82.3	81.3	77.8	72.4	68.1	75.1
Ga.--- Atlanta	44.7	46.1	51.4	60.2	69.1	76.6	78.9	78.2	73.1	62.4	51.2	44.8	61.4
Hawaii.--- Honolulu	72.5	72.4	72.8	74.2	76.9	77.9	78.6	78.4	79.2	78.2	75.9	73.6	75.9
Idaho.--- Boise	29.1	34.5	41.7	50.4	58.2	65.8	75.2	72.1	62.7	51.6	38.6	32.2	51.0
Ill.--- Chicago	26.0	27.7	36.3	49.0	60.0	70.5	75.6	74.2	66.1	55.1	39.9	29.1	50.8
Pearl	25.7	28.4	37.6	50.8	61.5	71.7	76.0	74.3	66.4	55.3	39.7	26.1	51.4
Ind.--- Indianapolis	29.1	31.1	38.0	50.3	61.4	71.1	75.2	73.7	66.5	55.4	40.9	31.1	52.1
Iowa.--- Des Moines	19.9	23.4	33.8	48.7	60.6	71.0	76.3	74.1	65.4	54.2	37.1	25.3	40.2
Kans.--- Wichita	32.0	36.3	44.5	56.7	68.0	76.5	80.9	80.8	71.3	59.9	44.4	35.8	57.1
KY.--- Louisville	35.0	35.8	43.3	54.8	64.4	73.4	77.6	76.2	69.5	57.9	44.7	36.3	55.7
La.--- New Orleans	54.6	57.1	61.4	67.9	74.4	80.1	81.6	81.0	78.3	70.4	60.0	55.4	68.6
Maine.--- Portland	21.8	22.8	31.4	42.5	53.6	62.0	68.1	66.8	58.7	48.6	38.1	25.8	45.0
Md.--- Baltimore	34.8	35.7	43.1	52.4	64.4	72.5	76.8	75.0	68.1	57.0	45.5	35.8	55.2
Mass.--- Boston	29.9	30.3	37.7	47.9	58.8	67.8	73.7	71.7	65.3	55.0	44.9	33.8	51.4
Mich.--- Detroit	26.9	27.2	34.8	47.6	59.0	69.7	74.4	72.8	65.1	53.8	40.4	29.9	40.6
Sault Ste. Marie	15.8	16.7	23.8	38.0	49.6	59.0	64.6	64.0	55.8	46.3	33.3	20.9	40.6
Minn.--- Duluth	8.7	10.8	21.3	37.0	40.2	58.8	65.5	63.8	54.2	44.6	27.3	14.0	37.9
Minneapolis	12.4	15.7	27.4	44.3	57.3	66.8	72.3	70.0	60.4	48.9	31.2	18.1	43.7
St. Paul	31.7	35.5	56.5	64.9	73.1	79.8	82.3	82.0	76.5	67.0	55.5	49.4	65.5
Miss.--- Jackson	47.9	50.5	56.5	64.9	73.1	79.8	81.5	79.8	71.3	60.2	44.6	35.8	56.8
Kans.--- Kansas City	31.7	35.8	43.3	55.7	65.6	75.9	81.5	79.8	71.3	60.2	44.1	34.8	55.3
St. Louis	31.0	34.7	42.6	54.9	64.2	74.1	78.1	76.8	65.9	58.4	44.1	34.7	44.7
Mont.--- Great Falls	22.1	23.8	30.7	43.6	53.0	59.9	64.9	66.8	57.4	47.5	34.3	27.3	44.7
Nebr.--- Omaha	22.3	26.5	36.9	51.7	63.0	73.1	78.5	76.2	66.9	55.7	38.9	28.2	51.5
Nev.--- Reno	30.4	35.3	41.5	48.0	53.9	60.1	67.7	65.5	58.8	49.2	38.3	31.9	48.4
N.H.--- Concord	21.2	22.7	31.7	43.8	55.6	64.5	69.6	67.4	59.3	48.7	37.6	25.0	45.6
N.J.--- Atlantic City	34.8	37.4	41.1	51.0	61.3	70.0	75.1	73.7	67.2	57.2	46.7	36.6	54.1
N. Mex.--- Albuquerque	35.0	39.9	45.8	55.7	65.1	74.9	78.5	76.2	70.0	58.0	43.6	37.0	56.8
N.Y.--- Albany	22.7	23.7	33.0	46.2	57.9	67.3	72.1	70.0	61.6	50.8	39.1	26.5	47.6
Buffalo	24.5	24.1	31.5	43.5	54.8	64.8	69.8	68.4	61.4	50.8	39.1	27.7	46.7
New York ¹	32.2	33.4	40.5	51.4	62.4	71.4	76.8	75.1	68.5	58.3	47.0	35.9	54.5
N.C.--- Charlotte	42.7	44.2	50.0	60.3	69.0	77.1	79.2	78.7	72.9	62.5	50.4	42.7	60.8
Raleigh	41.6	45.0	49.5	59.3	67.6	75.1	77.9	76.9	71.2	60.5	50.0	41.9	59.5
N.Dak.--- Bismarck	9.0	13.5	20.2	43.5	55.0	64.5	71.7	69.3	58.7	46.7	28.9	17.8	42.2
Ohio.--- Cincinnati ¹	33.7	35.1	42.7	54.2	64.2	73.4	76.9	75.7	69.0	57.9	44.6	35.3	55.2
Cleveland	28.4	28.5	35.1	47.0	58.0	67.8	71.0	70.4	64.2	53.4	41.3	30.5	49.7
Columbus	29.9	31.1	38.9	50.8	61.5	70.8	74.8	73.2	65.9	54.2	41.2	31.5	52.0
Oklahoma.--- Oklahoma City	37.0	41.3	48.5	59.9	68.4	78.0	82.5	82.8	78.8	62.9	48.4	40.3	60.3
Oreg.--- Portland	38.4	42.0	46.1	58.5	67.4	82.0	86.7	86.6	82.2	54.2	45.1	41.3	52.9
Pa.--- Philadelphia	32.3	32.2	41.0	52.0	62.6	71.0	75.6	73.6	66.7	55.7	44.3	33.9	53.5
Pittsburgh	28.9	29.2	38.8	49.0	59.8	68.4	72.1	70.8	64.2	53.1	40.8	30.7	50.3
R.I.--- Providence	29.2	29.7	37.0	47.2	57.5	66.2	70.5	70.1	63.2	53.2	43.0	32.0	50.1
S.C.--- Columbia	46.9	48.4	54.4	63.6	72.2	79.7	81.8	80.5	75.3	64.7	53.7	40.4	60.0
S.Dak.--- Sioux Falls	15.2	19.1	30.1	45.0	58.3	68.1	71.4	71.8	61.8	50.8	32.6	21.1	45.7
Tenn.--- Memphis	41.5	44.1	51.1	61.4	70.3	78.5	81.3	80.5	73.9	63.1	50.1	42.5	61.5
Nashville	39.9	42.0	49.1	59.6	68.6	77.4	80.2	79.2	72.8	61.5	48.5	41.4	60.0
Tex.--- Dallas	45.9	49.5	56.1	65.0	72.9	81.3	84.9	85.0	77.9	67.8	54.9	48.1	65.8
El Paso	42.9	49.1	54.9	63.4	71.9	81.0	81.9	80.4	74.5	64.4	51.2	44.1	63.3
Houston	53.6	55.8	61.3	68.5	76.0	81.6	88.0	83.2	79.2	71.4	60.8	55.7	69.2
Utah.--- Salt Lake City	27.2	32.5	40.4	49.9	58.9	67.4	76.9	74.5	64.4	51.7	36.7	30.1	50.9
Vt.--- Burlington	16.2	17.4	26.7	41.2	53.8	64.2	69.0	66.7	58.4	47.6	35.3	21.5	43.2
Va.--- Norfolk	41.2	41.6	48.0	58.0	67.5	75.6	78.8	77.5	72.6	62.0	51.4	42.5	59.7
Richmond	38.7	39.9	47.7	58.1	67.0	75.1	78.1	76.0	70.2	58.7	48.5	33.7	58.1
Wash.--- Seattle-Tacoma	38.3	40.8	43.8	49.2	55.5	59.8	64.9	64.1	59.9	52.4	43.9	40.8	51.1
Spokane	25.3	30.0	38.1	47.3	55.2	61.9	70.5	68.0	60.0	49.1	35.7	30.1	47.8
W. Va.--- Charleston	34.6	37.5	44.4	55.3	64.2	70.8	74.9	73.8	68.2	57.3	45.3	37.1	55.6
Wis.--- Milwaukee	20.6	22.4	31.0	43.8	53.4	63.3	68.7	67.8	60.3	50.0	35.8	24.8	45.1
Wyo.--- Cheyenne	25.4	27.3	32.4	42.6	52.9	63.0	70.0	67.7	58.6	47.5	34.2	29.5	45.9
P.R.--- San Juan	74.4	74.4	75.3	76.6	78.7	80.0	80.4	80.9	78.2	70.0	60.0	52.2	78.0

¹ City office data.

Temperature

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No. 273. NORMAL MONTHLY MAXIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala.---- Mobile-----	62.3	64.7	70.3	77.5	85.9	91.4	92.0	91.2	87.4	80.3	69.6	63.9	78.0
Alaska---- Juneau-----	30.1	32.1	36.5	45.4	53.6	60.8	62.7	61.5	55.2	46.5	39.2	32.7	46.4
Ariz.---- Phoenix-----	64.0	68.1	75.0	83.9	92.9	101.6	104.6	101.6	98.2	86.7	78.7	66.1	84.7
Ark.---- Little Rock-----	50.6	54.6	62.7	73.5	81.5	89.7	92.7	92.4	86.3	76.0	61.3	52.1	72.8
Calif.---- Los Angeles-----	63.8	63.7	65.0	66.9	68.7	71.1	75.9	76.4	75.8	73.0	71.0	66.5	60.7
Sacramento-----	53.2	56.6	64.8	71.4	78.2	85.5	93.4	91.9	88.2	77.0	64.2	54.6	73.6
San Francisco-----	55.5	58.6	60.7	61.9	68.4	65.0	64.3	64.9	68.0	68.3	63.7	57.5	62.8
Colo.---- Denver-----	42.1	44.6	49.9	60.5	70.5	82.0	88.4	86.8	79.0	66.6	51.7	45.2	63.9
Conn.---- Hartford-----	34.7	36.0	45.3	59.6	72.0	80.5	85.0	82.7	74.7	64.8	50.9	37.0	60.3
Del.---- Wilmington-----	41.3	42.4	50.5	62.5	73.4	81.8	86.2	84.2	77.9	67.3	55.1	43.5	63.8
D.C.---- Washington-----	44.3	46.1	53.8	65.8	75.5	83.4	87.0	85.0	78.6	68.3	56.5	45.6	65.8
Fla.---- Jacksonville-----	66.8	68.5	73.3	79.6	80.4	90.5	92.0	91.4	87.6	80.2	72.2	66.7	79.6
Miami-----	75.8	77.0	79.8	82.6	85.4	88.0	88.8	87.7	88.0	84.7	80.2	77.1	83.1
Ga.---- Atlanta-----	52.0	53.7	60.3	70.1	78.9	85.7	87.0	86.6	81.8	72.4	60.9	52.4	70.2
Hawaii---- Honolulu-----	79.1	78.8	79.2	80.2	81.8	83.8	84.8	84.9	85.2	84.2	82.0	79.2	81.9
Idaho---- Boise-----	36.1	42.4	51.5	62.3	71.9	80.5	91.4	88.7	78.8	65.3	48.4	39.4	63.1
Ill.---- Chicago-----	33.0	34.7	43.5	57.4	69.1	79.5	84.1	82.4	74.8	63.4	47.1	35.7	58.7
Ind.---- Indianapolis-----	37.1	39.4	48.1	61.2	72.0	81.8	86.0	84.7	78.0	66.8	50.0	39.0	62.0
Iowa---- Des Moines-----	28.5	32.2	42.9	59.4	71.4	81.3	87.3	84.7	76.9	65.7	46.5	33.5	59.2
Kans.---- Wichita-----	41.6	47.0	55.9	68.2	77.1	87.7	92.4	92.8	83.7	71.7	55.1	44.9	68.2
Ky.---- Louisville-----	45.5	46.6	53.8	66.4	76.2	85.0	88.5	87.3	81.3	69.0	54.4	44.7	66.4
La.---- New Orleans-----	64.4	67.0	71.2	77.7	84.4	89.6	90.6	87.7	82.4	80.3	70.3	65.3	78.2
Maine---- Portland-----	31.8	33.5	40.7	52.5	64.2	73.1	79.5	78.4	70.2	59.8	47.0	35.3	55.6
Md.---- Baltimore-----	44.2	45.5	53.6	65.8	75.9	83.5	87.2	85.0	78.6	68.4	56.5	45.7	65.8
Mass.---- Boston-----	36.8	37.4	44.6	55.7	67.5	76.3	81.9	80.0	73.4	62.7	51.9	40.1	59.0
Mich.---- Detroit-----	33.0	33.9	42.3	56.4	68.6	79.1	83.9	81.9	74.2	62.8	47.1	35.7	58.2
Sault Ste. Marie-----	23.1	24.0	31.7	46.4	59.9	69.9	75.0	74.0	64.4	54.5	39.6	27.3	49.3
Minn.---- Duluth-----	17.0	21.4	31.1	47.1	60.6	70.3	77.1	74.6	64.7	54.5	35.1	22.3	48.1
Minneapolis----- St. Paul	22.4	26.3	37.2	55.7	69.1	78.1	88.9	81.3	72.2	60.6	40.5	27.4	51.6
Miss.---- Jackson-----	53.3	61.6	68.6	77.2	85.2	91.2	92.9	93.1	88.3	79.6	67.5	59.9	77.0
Mo.---- Kansas City-----	39.0	44.8	52.6	65.6	75.1	85.2	91.0	90.3	82.7	71.6	54.5	43.7	66.5
Mont.---- Great Falls-----	31.6	34.0	41.1	55.2	65.7	72.9	84.7	81.8	71.2	59.3	44.2	35.8	55.6
Nebr.---- Omaha-----	31.7	36.0	46.4	62.4	73.9	83.8	89.7	86.9	78.5	67.5	48.0	37.2	61.9
Nev.---- Reno-----	44.6	49.8	57.3	65.4	71.5	80.3	89.4	88.3	81.2	69.0	55.7	47.3	66.7
N.H.---- Concord-----	31.7	33.5	41.7	55.9	69.3	77.7	82.8	80.6	72.4	61.7	47.9	35.1	57.5
N.J.---- Atlantic City-----	42.9	43.3	49.7	60.3	71.0	79.2	83.8	82.2	76.0	68.5	55.5	45.1	63.0
N.Mex.---- Albuquerque-----	46.4	52.2	58.8	60.1	78.3	88.6	91.2	88.0	82.8	70.7	56.1	48.3	69.2
N.Y.---- Albany-----	31.0	32.5	41.9	56.7	69.5	78.7	83.7	81.4	72.9	51.8	47.5	34.5	57.7
Buffalo-----	30.8	31.0	38.6	52.9	65.5	75.1	80.1	78.6	71.5	60.1	46.5	34.3	55.4
New York 1-----	39.5	40.3	47.8	59.6	71.4	80.2	85.3	83.3	76.8	66.8	53.7	42.1	62.2
N.C.---- Charlotte-----	51.4	53.7	60.0	71.0	79.4	87.6	88.8	87.8	81.9	72.8	60.7	51.3	70.5
Raleigh-----	51.9	54.0	61.1	71.8	79.4	86.3	88.1	87.1	82.0	72.8	62.2	52.3	70.8
N.Dak.---- Bismarck-----	19.6	23.3	35.1	54.9	68.2	70.5	85.7	83.7	72.6	59.4	38.6	26.0	53.7
Ohio---- Cincinnati-----	41.3	43.4	52.0	64.4	74.9	83.8	87.5	86.4	80.3	68.9	53.2	42.6	64.9
Cleveland-----	35.4	36.1	43.9	57.3	68.9	78.3	82.4	80.8	74.5	63.4	48.8	37.0	58.9
Columbus-----	37.8	39.5	48.4	62.2	73.5	82.9	86.6	85.0	77.6	65.8	50.6	39.6	62.5
Okla.---- Oklahoma City-----	45.9	51.3	59.5	70.6	78.1	87.4	92.8	93.5	84.7	73.9	58.8	40.2	70.5
Oreg.---- Portland-----	43.7	48.8	54.2	61.7	67.5	71.8	78.6	77.9	73.7	63.2	51.7	46.5	61.6
Pa.---- Philadelphia-----	40.3	41.8	50.3	62.6	73.4	81.6	85.9	83.7	77.2	66.5	54.0	42.3	63.3
Pittsburgh-----	36.5	37.6	46.1	60.0	71.4	79.9	83.3	81.9	75.5	63.7	49.5	38.1	60.3
R.I.---- Providence-----	37.3	38.3	45.3	56.6	67.7	76.1	81.4	80.0	73.1	63.4	52.2	40.4	59.3
S.C.---- Columbia-----	38.2	60.5	66.5	76.3	84.7	91.5	92.5	91.2	86.1	77.4	66.7	55.2	75.8
S.Dak.---- Sioux Falls-----	25.1	29.1	39.4	57.0	70.1	79.4	86.0	83.3	73.5	61.9	42.5	30.3	56.5
Tenn.---- Memphis-----	50.6	53.9	61.4	72.1	80.1	88.3	91.1	90.7	85.6	75.7	61.5	52.5	72.0
Nashville-----	49.8	51.4	59.4	70.8	79.8	88.4	90.7	89.9	84.5	73.7	59.1	50.3	70.6
Tex.---- Dallas-----	55.8	59.5	67.0	75.4	82.7	90.0	94.5	95.0	88.3	78.8	65.7	58.0	76.0
El Paso-----	56.3	62.4	69.4	78.2	86.9	95.4	94.0	93.0	87.5	78.8	66.3	57.5	77.2
Houston-----	63.6	65.5	71.7	80.8	85.7	91.1	92.1	92.8	89.1	82.3	71.1	65.4	79.0
Utah---- Salt Lake City-----	36.8	42.0	52.0	63.4	74.0	83.7	94.1	90.8	80.3	65.2	47.5	39.0	64.1
Vt.---- Burlington-----	25.4	27.1	36.3	52.4	66.4	77.1	81.9	79.6	70.6	58.6	43.4	30.2	54.1
Va.---- Norfolk-----	50.2	51.0	57.2	65.0	77.3	84.9	87.9	86.2	80.9	70.9	61.0	51.8	68.9
Richmond-----	48.3	50.6	60.1	70.4	79.3	86.8	89.4	86.5	81.8	70.6	59.9	49.8	69.4
Wash.---- Seattle-Tacoma-----	43.0	47.0	51.3	58.2	65.6	69.9	75.6	74.6	69.3	60.3	49.6	45.9	59.2
Spokane-----	31.4	37.4	47.0	58.1	69.3	74.5	85.6	83.0	74.7	60.1	42.9	35.9	58.4
W.Va.---- Charleston-----	45.2	46.9	54.5	66.3	76.7	82.8	85.6	84.3	79.5	69.3	55.3	45.6	66.0
Wis.---- Milwaukee-----	28.8	30.2	38.8	53.1	63.9	73.9	78.9	77.7	70.7	60.1	44.1	32.0	54.3
Wyo.---- Cheyenne-----	37.2	39.4	44.1	55.5	65.1	76.5	85.2	82.8	74.2	62.7	47.2	41.6	59.3
P.R.---- San Juan-----	81.3	81.8	83.1	84.0	85.8	87.1	87.1	87.8	87.8	87.1	85.0	82.7	85.1

* City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data, Monthly with annual summary.

No. 274. NORMAL MONTHLY MINIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala. Mobile	43.7	45.7	50.3	57.6	65.3	71.5	73.1	73.0	68.3	59.5	48.2	44.3	58.4
Alaska. Juneau	20.0	21.4	24.3	30.5	37.6	43.7	47.8	46.6	42.5	36.7	29.4	24.0	33.7
Ariz. Phoenix	35.3	38.9	42.9	50.4	57.1	65.5	75.0	73.4	67.3	54.6	42.4	37.0	53.3
Ark. Little Rock	30.5	34.1	40.9	51.2	59.5	68.0	71.1	70.1	62.2	50.2	37.6	31.7	50.6
Calif. Los Angeles	45.0	46.7	48.9	51.9	55.2	58.5	62.3	62.8	61.1	56.8	51.0	47.3	54.0
Sacramento	37.2	38.8	42.0	45.3	59.7	64.4	57.4	56.3	55.0	49.4	41.6	38.1	47.2
San Francisco	45.5	47.3	48.6	49.5	51.3	53.1	53.3	53.9	55.1	54.4	51.0	47.4	50.9
Colo. Denver	14.8	18.3	22.8	32.8	41.8	51.0	57.4	56.2	47.0	36.2	23.6	18.0	35.0
Conn. Hartford	17.3	18.2	26.7	37.3	47.7	56.9	61.8	59.7	51.8	41.2	31.6	20.2	30.2
Del. Wilmington	25.5	25.2	32.0	41.6	52.0	61.0	65.8	64.3	57.3	45.9	35.7	26.7	44.4
D.C. Washington	29.5	29.4	35.8	45.6	56.0	64.9	69.3	67.9	60.7	49.6	38.9	30.5	48.2
Fla. Jacksonville	45.0	46.5	51.1	57.8	65.1	71.1	73.2	73.2	71.1	61.8	51.2	45.5	59.4
Miami	57.9	58.8	61.1	65.8	69.7	73.5	74.7	74.9	74.6	70.9	64.6	59.1	67.1
Ga. Atlanta	37.3	38.4	42.5	50.2	59.2	67.5	70.7	60.8	64.3	52.4	41.5	37.1	52.6
Hawaii. Honolulu	65.6	68.0	66.4	68.1	70.0	72.0	73.0	73.8	73.2	72.1	69.7	67.9	69.8
Idaho. Boise	22.1	25.5	31.0	37.4	44.5	51.1	59.0	55.5	46.6	37.9	28.7	25.0	38.0
Ill. Chicago	19.0	20.6	29.0	40.5	50.9	61.5	67.1	65.9	57.4	46.7	32.6	22.5	42.8
Pearl	17.6	20.1	28.4	40.3	50.7	61.1	65.0	63.5	55.0	44.1	30.7	21.3	41.5
Ind. Indianapolis	21.0	22.8	27.0	40.3	60.7	60.4	64.3	62.7	54.9	44.0	31.8	23.2	42.2
Iowa. Des Moines	11.3	14.6	24.6	38.0	49.8	60.7	65.2	63.4	53.8	42.6	27.6	17.0	39.1
Kans. Wichita	22.3	25.6	33.0	45.2	54.9	65.2	69.4	68.8	58.9	48.0	33.7	26.6	46.0
Ky. Louisville	26.5	26.0	32.8	43.1	52.6	61.8	66.6	65.1	57.7	46.2	34.9	27.8	45.1
La. New Orleans	44.8	47.5	51.6	58.1	64.4	70.5	72.6	73.0	69.3	60.5	49.6	45.5	59.0
Maine. Portland	11.7	12.1	22.0	32.4	41.7	51.1	56.7	55.2	47.2	37.4	28.6	16.3	34.4
Md. Baltimore	25.3	26.8	32.5	42.6	52.8	61.4	66.4	65.0	57.6	45.6	34.4	25.9	44.6
Mass. Boston	23.0	23.1	30.7	40.0	50.1	59.2	65.4	63.3	57.1	47.2	37.8	26.5	43.6
Mich. Detroit	20.7	20.4	27.3	38.8	49.4	60.3	64.8	63.6	60.0	44.7	33.7	24.1	42.0
Sault Ste. Marie	8.4	7.4	15.8	29.6	39.3	48.0	53.5	54.0	47.1	38.1	26.9	14.4	31.9
Minn. Duluth	-0.6	0.1	11.4	26.9	37.7	47.3	53.9	52.9	43.7	34.6	19.5	5.7	27.8
Minneapolis-St. Paul	2.3	5.0	17.6	32.8	45.4	55.5	60.7	58.6	48.5	37.2	21.8	8.7	32.8
Miss. Jackson	37.4	38.4	44.4	52.5	60.8	69.4	71.7	70.9	64.7	54.4	43.4	38.9	53.0
Mo. Kansas City	23.4	26.7	34.0	45.8	56.0	66.5	71.0	69.2	69.9	48.7	34.6	27.0	47.0
St. Louis	23.5	25.8	32.4	43.8	53.3	63.1	66.9	66.3	57.6	46.6	34.5	20.0	45.0
Mont. Great Falls	12.5	13.6	20.2	31.9	40.2	46.0	54.1	51.8	43.5	35.6	24.4	18.8	32.8
Nebr. Omaha	12.0	17.0	27.3	40.9	52.1	62.4	67.3	65.5	55.3	43.8	28.8	19.1	41.0
Nev. Reno	16.2	21.4	25.0	30.5	36.3	39.8	45.9	42.7	36.4	29.4	20.8	16.4	30.1
N.H. Concord	10.6	11.8	21.7	27.1	51.3	51.3	56.4	54.1	46.2	35.6	27.2	14.8	33.6
N.J. Atlantic City	26.8	21.1	32.4	41.7	51.5	60.7	66.3	65.1	58.4	47.8	37.0	28.1	45.2
N.M. Albuquerque	23.5	27.5	32.7	42.2	51.0	61.1	65.8	64.3	57.6	45.3	31.1	25.0	44.1
N.Y. Albany	14.4	14.8	24.0	35.7	46.3	55.8	58.5	58.5	50.3	39.8	30.6	18.5	37.4
Buffalo	18.2	17.2	24.4	34.0	44.1	54.5	59.4	58.1	51.2	41.4	31.7	21.1	37.0
New York ¹	20.9	26.4	33.2	43.1	53.4	62.5	68.2	68.8	60.1	50.3	40.3	29.7	46.7
N.C. Charlotte	34.0	34.7	40.0	46.8	56.5	66.9	69.5	69.9	68.8	52.2	40.1	34.1	51.1
Raleigh	31.3	31.9	37.8	48.5	55.7	63.9	67.6	66.7	60.4	48.2	37.7	31.4	48.3
N. Dak. Bismarck	0.1	3.7	17.3	32.1	45.6	52.4	57.7	54.8	44.7	34.0	19.1	8.6	30.7
Ohio. Cincinnati ¹	26.1	26.7	33.3	43.9	53.5	63.0	68.3	64.9	57.6	46.8	36.0	27.0	45.5
Cleveland	21.3	20.8	26.3	36.7	47.0	57.2	61.3	60.0	53.8	43.4	33.7	24.0	40.5
Columbus	22.0	22.7	29.3	39.4	49.4	58.6	62.0	61.4	54.2	42.5	31.8	23.4	41.5
Oklahoma City	28.1	31.2	37.5	49.1	58.6	68.5	72.2	72.0	62.9	51.8	38.0	31.4	50.1
Oreg. Portland	33.0	36.1	37.9	41.8	47.2	52.2	55.7	55.2	50.7	45.1	38.4	36.1	44.0
Pa. Philadelphia	24.3	24.6	31.1	41.4	51.8	60.4	65.2	63.5	56.2	44.9	34.5	25.5	43.7
Pittsburgh	21.2	20.7	27.4	37.9	48.1	56.9	60.9	59.6	52.8	42.4	32.0	23.2	40.3
R.I. Providence	21.0	21.1	28.6	37.7	47.2	56.3	62.7	60.9	53.3	42.9	33.8	23.5	40.8
S.C. Columbia	35.6	36.3	42.3	50.8	59.6	67.9	70.7	69.7	64.5	52.0	40.7	34.5	52.1
S.Dak. Sioux Falls	5.2	9.0	20.8	34.7	46.5	56.8	62.5	60.3	50.0	38.6	22.7	11.9	34.9
Tenn. Memphis	32.4	34.3	40.7	50.7	60.4	68.6	71.5	70.3	62.1	50.5	38.7	32.5	51.1
Nashville	30.9	32.5	38.7	48.4	57.4	66.3	69.6	68.4	61.1	49.3	37.9	32.4	49.4
Tex. Dallas	36.0	39.4	45.2	54.6	63.1	71.7	75.3	75.0	67.4	56.8	44.1	38.1	55.6
El Paso	29.5	36.7	40.3	48.5	66.9	66.5	68.9	67.7	61.4	50.0	36.1	20.7	49.4
Houston	43.6	46.0	50.8	59.0	66.2	72.0	78.8	73.6	69.3	60.4	50.5	45.9	59.3
Utah. Salt Lake City	17.5	22.9	28.8	36.4	43.8	51.0	59.6	58.2	48.5	38.2	25.9	21.2	37.7
Vt. Burlington	6.9	7.6	17.0	30.0	41.2	51.2	56.0	55.8	46.1	36.6	27.1	12.8	32.2
Va. Norfolk	32.2	32.2	38.7	47.9	57.7	66.3	69.8	68.4	64.3	53.1	41.8	33.1	50.5
Richmond	29.0	29.2	36.3	45.8	54.6	63.4	66.7	65.4	58.6	46.7	37.1	29.5	46.9
Wash. Seattle-Tacoma	33.0	34.5	36.2	40.1	46.3	49.7	54.1	53.0	50.5	44.4	38.1	35.7	42.9
Spokane	10.2	22.5	29.1	35.9	43.1	49.3	55.4	52.9	47.0	38.0	28.5	24.2	37.1
W.Va. Charleston	27.9	28.0	34.3	44.3	52.8	60.8	64.2	63.3	56.8	45.3	35.2	28.6	45.1
Wis. Milwaukee	12.8	14.8	23.2	34.1	42.9	52.6	58.4	57.8	49.9	38.9	27.5	17.1	35.9
Wyo. Cheyenne	13.6	15.2	20.7	28.6	40.6	49.5	54.8	52.6	43.0	32.2	21.2	17.4	32.5
P.R. San Juan	67.4	67.0	69.5	69.2	71.5	72.9	73.7	74.0	73.2	72.8	71.4	69.6	70.9

¹ City office data.

No. 275. HIGHEST TEMPERATURE OF RECORD—SELECTED CITIES

(In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1968)

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.-----Mobile ¹ -----	97	84	84	91	92	100	102	104	102	103	95	86	80	104
Alaska-----Juneau-----	25	57	50	55	71	82	84	88	72	61	56	54	84	84
Ariz.-----Phoenix ¹ -----	72	85	92	97	104	114	118	118	117	118	105	96	88	118
Ark.-----Little Rock-----	27	83	83	88	93	98	104	107	108	108	97	86	80	108
Calif.-----Los Angeles ¹ -----	91	90	92	99	100	103	105	109	106	110	108	101	94	110
Calif.-----Sacramento ¹ -----	91	72	80	86	96	103	115	114	111	109	102	96	86	115
Calif.-----San Francisco ¹ -----	98	79	80	86	89	97	106	104	98	102	96	86	76	108
Colo.-----Denver ¹ -----	97	76	77	83	86	96	104	104	105	97	90	79	79	105
Conn.-----Hartford-----	23	66	68	87	94	96	101	102	101	101	91	83	67	102
Del.-----Wilmington-----	21	75	74	86	89	95	99	92	102	101	100	91	85	72
D.C.-----Washington ¹ -----	98	80	84	93	96	97	102	106	106	104	96	87	75	106
Fla.-----Jacksonville-----	27	85	88	91	94	100	103	105	102	100	98	88	84	105
Fla.-----Miami-----	26	87	89	90	93	94	98	98	98	95	92	89	86	98
Ga.-----Atlanta-----	34	79	79	86	89	97	102	103	102	99	95	84	74	103
Hawaii-----Honolulu ¹ -----	46	84	84	86	88	91	91	92	92	93	92	90	85	93
Idaho-----Boise-----	29	63	67	78	82	98	98	109	111	110	102	91	73	85
Ill.-----Chicago-----	24	67	69	82	88	94	104	104	103	101	101	94	81	104
Ind.-----Indianapolis-----	38	71	72	81	88	94	102	107	100	100	90	81	69	107
Iowa-----Des Moines ¹ -----	90	65	78	88	92	105	103	110	110	102	95	82	69	110
Kans.-----Wichita-----	16	75	81	89	94	100	106	113	110	103	95	80	83	113
Ky.-----Louisville-----	21	77	77	86	91	95	102	105	101	104	92	84	72	105
La.-----New Orleans ¹ -----	98	84	85	90	92	98	102	102	102	101	96	92	85	102
Maine-----Portland-----	28	64	64	86	85	92	97	98	100	95	88	73	62	100
Md.-----Baltimore ¹ -----	98	73	83	90	95	105	107	105	101	97	87	75	107	
Mass.-----Boston-----	15	62	68	78	81	93	100	100	100	100	90	76	70	100
Mich.-----Detroit-----	35	67	68	82	87	93	104	105	101	100	92	81	64	105
Minn.-----Sault Ste. Marie-----	28	43	45	76	82	88	92	94	98	93	80	66	59	98
Minn.-----Duluth ¹ -----	92	55	58	78	88	98	97	106	97	94	86	73	56	106
Minn.-----Minneapolis-----	30	58	59	83	92	95	100	104	102	98	89	75	63	104
Miss.-----Jackson-----	37	85	83	88	93	105	104	106	103	108	96	86	84	106
Mo.-----Kansas City-----	33	75	76	89	91	97	107	112	113	109	98	83	74	113
Mo.-----St. Louis ¹ -----	98	77	84	92	93	98	105	115	108	104	94	86	76	115
Mont.-----Great Falls-----	31	62	67	72	87	90	99	102	106	98	91	72	69	106
Nebr.-----Omaha ¹ -----	96	69	78	91	94	103	107	114	111	104	96	80	72	114
Nev.-----Reno-----	26	70	74	83	88	95	101	104	102	101	91	77	69	104
N.H.-----Concord-----	20	68	66	85	91	97	98	102	100	98	90	80	63	102
N.J.-----Atlantic City-----	25	78	73	87	90	96	100	104	102	97	90	84	72	104
N.Mex.-----Albuquerque-----	29	68	72	81	89	98	101	104	100	98	87	74	72	104
N.Y.-----Albany-----	21	64	62	79	91	94	99	100	99	100	89	82	64	100
N.Y.-----Buffalo-----	25	72	64	81	87	90	95	94	99	98	87	80	66	99
N.C.-----New York ² -----	100	72	75	86	92	99	101	106	104	102	94	84	70	106
N.C.-----Charlotte-----	29	78	80	90	93	100	103	103	102	104	98	86	77	104
N.C.-----Raleigh-----	22	79	80	92	93	97	104	105	101	104	98	88	78	105
N. Dak.-----Bismarck-----	29	64	68	81	92	98	100	108	109	105	95	74	62	109
Ohio.-----Cincinnati ² -----	53	77	76	88	90	95	102	103	103	101	92	88	71	100
Ohio.-----Cleveland-----	39	73	72	83	88	95	102	107	102	101	90	82	69	107
Ohio.-----Columbus ¹ -----	90	74	73	85	90	96	102	106	108	101	90	80	70	106
Oklahoma-----Oklahoma City-----	15	79	84	93	95	96	100	108	107	102	95	84	86	108
Oreg.-----Portland-----	28	62	70	80	87	92	92	100	107	102	101	89	69	107
Pa.-----Philadelphia-----	27	74	74	87	92	96	100	104	101	100	96	86	72	104
R.I.-----Pittsburgh ³ -----	94	77	77	84	90	95	99	103	103	102	91	83	73	103
R.I.-----Providence-----	29	65	66	86	87	94	97	99	100	99	88	81	69	100
S.C.-----Columbia-----	20	82	84	89	93	101	107	106	106	101	101	90	80	107
S. Dak.-----Sioux Falls-----	21	59	70	87	94	100	101	108	105	99	94	75	61	108
Tenn.-----Memphis-----	27	78	81	85	91	97	104	106	105	103	95	85	76	106
Tenn.-----Nashville-----	28	78	84	86	90	97	106	107	104	105	94	84	76	107
Tex.-----Dallas-----	28	88	88	96	99	99	105	111	109	105	99	89	89	111
Tex.-----El Paso-----	26	75	81	88	98	104	109	109	103	93	83	76	109	
Tex.-----Houston ¹ -----	79	84	90	96	94	98	108	105	108	101	99	80	83	108
Utah-----Salt Lake City-----	40	60	68	78	85	93	104	107	103	98	89	75	66	107
Vt.-----Burlington-----	23	63	60	84	87	91	96	99	101	94	85	75	62	101
Va.-----Norfolk-----	20	77	78	85	97	97	101	103	99	98	95	85	77	103
Va.-----Richmond-----	39	80	83	93	96	100	104	104	102	103	99	86	78	104
Wash.-----Seattle-Tacoma-----	24	61	70	72	82	93	96	97	99	93	80	74	61	99
Wash.-----Spokane-----	21	53	61	71	84	92	97	103	108	98	86	65	54	108
W. Va.-----Charleston-----	21	79	77	87	90	93	98	102	100	102	92	86	79	102
Wis.-----Milwaukee-----	27	62	60	81	85	90	99	101	100	98	89	77	63	101
Wyo.-----Cheyenne-----	33	63	71	73	82	89	100	100	96	93	83	73	69	100
P.R.-----San Juan-----	14	90	92	93	93	94	93	92	94	98	92	90	94	94

¹ Includes urban data. ² City office data. ³ Represents combination of several locations within the city.

No. 276. LOWEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1968]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. Mobile ¹	97	7	-1	11	32	43	50	60	57	42	32	22	10	-1
Alaska. Juneau	25	-20	-22	-11	6	25	31	36	27	26	16	-3	-21	-22
Ariz. Phoenix ¹	71	18	22	29	32	39	49	61	58	47	36	25	22	16
Ark. Little Rock	27	-4	-5	11	20	40	52	56	52	37	30	17	-1	-5
Calif. Los Angeles ¹	91	23	28	31	36	40	46	49	49	44	40	34	30	23
Calif. Sacramento	91	19	21	28	32	34	43	47	46	43	31	26	17	17
Calif. San Francisco ¹	98	24	25	30	31	36	41	43	42	38	34	25	20	20
Colo. Denver ¹	97	-29	-30	-11	4	19	30	42	40	21	-2	-18	-25	-30
Conn. Hartford	23	-28	-21	-8	19	27	37	44	36	27	22	10	-11	-26
Del. Wilmington	21	-4	-4	9	23	32	44	50	46	37	26	14	3	-4
D.C. Washington ¹	98	-14	-15	4	15	33	43	52	49	36	26	11	-13	-15
Fla. Jacksonville	27	20	19	25	35	49	56	65	64	50	38	23	12	12
Fla. Miami	26	34	32	37	41	53	65	69	68	51	39	34	32	32
Ga. Atlanta	34	-3	5	10	28	38	46	55	56	36	29	3	1	-3
Hawaii. Honolulu ¹	46	56	57	58	59	64	64	68	67	65	61	59	56	56
Idaho. Boise	29	-17	-10	8	20	27	33	41	37	24	20	-3	-1	-17
Ill. Chicago	24	-16	-15	-7	19	29	35	49	43	36	20	-2	-14	-16
Ind. Peoria	29	-20	-16	-10	20	26	39	47	43	26	19	-1	-18	-20
Ind. Indianapolis	33	-18	-19	-6	16	28	39	44	41	28	17	-2	-15	-19
Iowa. Des Moines ¹	90	-30	-28	-22	11	26	37	48	40	26	7	-10	-21	-30
Kans. Wichita	16	-12	-3	-2	17	32	44	52	48	35	23	8	-5	-12
Ky. Louisville	21	-20	-19	-1	25	31	42	50	49	33	23	-1	-9	-20
La. New Orleans ¹	98	14	7	26	35	37	55	60	60	42	35	26	17	7
Maine. Portland	28	-21	-39	-21	8	23	33	40	38	23	18	5	-21	-39
Md. Baltimore ¹	98	-7	-7	5	15	32	42	52	48	35	25	12	-3	-7
Mass. Boston	15	-12	-4	0	17	34	46	54	47	38	31	17	-4	-12
Mich. Detroit	35	-18	-16	-1	14	30	38	47	43	32	24	5	-5	-16
Mich. Sault Ste. Marie	28	-28	-25	-24	1	18	28	36	32	25	19	-5	-20	-28
Minn. Duluth ¹	92	-41	-38	-28	-5	16	30	36	36	22	8	-29	-35	-41
Minn. Minneapolis- St. Paul	30	-32	-28	-32	2	18	34	45	39	26	18	-17	-22	-32
Miss. Jackson	36	-5	1	17	30	42	48	51	54	35	28	16	14	-5
Mo. Kansas City	33	-13	-7	-3	16	32	44	54	49	34	24	5	-7	-13
Mo. St. Louis ¹	98	-22	-18	-5	20	31	44	51	47	32	21	1	-15	-22
Mont. Great Falls	31	-33	-35	-29	-6	15	31	42	35	23	7	-23	-43	-43
Nebr. Omaha ¹	96	-32	-26	-16	5	25	39	47	43	30	8	-14	-20	-32
Nev. Reno	26	-16	-12	-2	13	18	25	33	24	20	13	1	-9	-16
N.H. Concord	26	-30	-37	-16	9	21	31	35	29	21	14	-1	-22	-37
N.J. Atlantic City	25	-8	-7	7	24	25	37	46	40	32	24	11	-7	-8
N. Mex. Albuquerque	29	-7	-5	8	19	28	44	54	53	37	26	10	3	-7
N.Y. Albany	21	-26	-21	-21	26	27	36	41	37	24	20	6	-19	-26
N.Y. Buffalo	25	-12	-20	-4	12	26	35	43	38	32	20	7	-8	-20
N.C. New York ²	106	-8	-15	3	12	32	44	52	50	39	28	5	-13	-15
N.C. Charlotte	29	-3	5	10	26	32	46	53	53	38	24	11	2	-3
N. Dak. Bismarck	20	-44	-34	-31	-2	15	33	38	33	16	5	-29	-43	-44
Ohio. Cincinnati ¹	53	-17	-9	3	18	28	40	50	43	32	20	1	-13	-17
Ohio. Cleveland	39	-19	-15	-5	10	25	38	41	41	32	23	4	-9	-19
Ohio. Columbus ¹	90	-20	-20	-2	15	25	30	44	30	31	20	-5	-12	-20
Okl. Oklahoma City	15	-4	7	3	20	39	47	57	51	41	22	11	1	-4
Oreg. Portland	28	-2	-3	19	29	30	43	44	44	34	26	13	6	-3
Pa. Philadelphia	27	-5	-4	7	24	28	44	51	45	35	35	15	1	-5
Pa. Pittsburgh ³	94	-18	-20	-1	11	26	38	42	40	31	16	-1	-9	-20
R.I. Providence	29	-9	-15	1	14	29	39	46	40	32	24	12	-11	-15
S.C. Columbia	20	7	11	18	29	34	51	54	54	44	23	16	4	4
S. Dak. Sioux Falls	21	-29	-31	-23	11	17	33	38	34	24	13	-17	-25	-31
Tenn. Memphis	27	-4	-11	12	29	38	48	52	48	36	25	9	-13	-13
Tenn. Nashville	28	-15	-13	5	25	34	42	51	47	36	26	-1	-7	-15
Tex. Dallas	28	2	7	11	31	39	53	61	61	36	30	17	10	2
Tex. El Paso	26	-8	8	15	28	31	50	60	58	41	27	16	5	-8
Vt. Burlington	23	-30	-26	-20	7	24	33	39	35	25	19	-2	-23	-30
Va. Norfolk	20	10	8	20	28	36	45	57	52	45	29	20	14	8
Wash. Richmond	39	-12	-10	11	26	31	40	51	46	37	21	10	-1	-12
Wash. Seattle-Tacoma	24	0	1	11	29	28	38	43	44	36	28	6	6	0
W. Va. Charleston	21	-24	-22	-3	17	24	34	39	35	25	20	-11	-25	-25
Wis. Milwaukee	27	-24	-19	-10	13	21	33	40	44	28	21	-5	-15	-24
Wyo. Cheyenne	33	-27	-34	-21	-6	16	25	38	37	18	2	-12	-24	-34
P.R. San Juan	14	61	62	60	64	66	69	69	70	69	67	66	63	60

¹ Includes urban data. ² City office data. ³ Represents combination of several locations within the city.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

No. 277. NORMAL MONTHLY AND ANNUAL PRECIPITATION—SELECTED CITIES

[In inches. Airport data unless otherwise noted. Based on standard 30-year period 1931 to 1960. T denotes trace. See *Historical Statistics, Colonial Times to 1957*, series J 136-265, for related data.]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An- nual
Ala. Mobile	4.64	4.59	7.23	6.86	4.88	6.23	9.67	6.44	6.25	3.03	3.35	5.46	68.13
Alaska Juneau	4.00	3.06	3.27	2.87	3.24	3.39	4.49	5.02	6.67	8.33	6.06	4.22	54.62
Ariz. Phoenix	0.73	0.85	0.66	0.82	0.13	0.09	0.77	1.12	0.73	0.46	0.40	0.85	7.20
Ark. Little Rock	5.22	4.33	4.81	4.93	5.28	3.61	3.34	5.22	3.28	2.88	4.12	4.09	48.66
Calif. Los Angeles	2.66	2.28	1.79	1.05	0.13	0.05	0.01	0.02	0.17	0.39	1.09	2.39	12.63
Sacramento	3.18	2.99	2.36	1.40	0.59	0.10	T	0.02	0.19	0.77	1.45	3.24	16.29
San Francisco	4.01	3.48	2.60	1.30	0.48	0.11	0.01	0.02	0.19	0.74	1.57	4.00	18.69
Colo. Denver	0.55	0.69	1.21	2.11	2.70	1.44	1.53	1.28	1.13	1.01	0.60	0.47	14.81
Conn. Hartford	3.58	2.94	3.80	3.73	3.41	3.70	3.61	4.01	3.65	3.18	3.84	3.47	42.92
Del. Wilmington	3.40	2.95	4.02	3.33	3.53	4.07	4.25	5.69	3.95	2.91	3.53	3.03	44.56
D.C. Washington	3.03	2.47	3.21	3.15	4.14	3.21	4.18	4.90	3.83	3.07	2.84	2.78	40.78
Fla. Jacksonville	2.45	2.01	3.49	3.55	3.47	6.38	7.68	6.85	7.56	5.16	1.60	2.22	53.36
Miami	2.03	1.87	2.7	3.58	6.44	7.37	6.75	6.07	9.47	8.21	2.83	1.67	59.76
Ga. Atlanta	4.44	4.51	5.87	4.47	3.16	3.83	4.72	3.60	3.26	2.44	2.98	4.38	47.14
Hawaii Honolulu	3.76	3.30	2.89	1.31	0.99	0.33	0.49	0.89	0.99	1.34	2.16	2.98	21.89
Idaho Boise	1.32	1.33	1.32	1.16	1.29	0.89	0.21	0.16	0.39	0.84	1.20	1.32	11.43
Ill. Chicago	1.86	1.60	2.74	3.04	3.73	4.07	3.37	3.16	2.73	2.78	2.20	1.90	33.18
Pearl Harbor	1.88	1.71	2.85	3.97	4.27	4.08	3.54	2.88	3.05	2.53	2.14	1.94	34.84
Ind. Indianapolis	3.05	2.28	3.41	3.74	3.99	4.02	3.50	3.03	3.24	2.62	3.09	3.25	39.25
Iowa Des Moines	1.30	1.10	2.09	2.53	4.07	4.71	3.08	3.67	2.88	2.06	1.78	1.14	30.37
Kans. Wichita	0.81	0.92	1.64	2.30	3.97	4.21	3.64	2.87	3.22	2.40	1.49	0.94	28.41
Ky. Louisville	4.10	3.28	4.59	3.82	3.90	3.98	3.88	2.97	2.63	2.25	3.20	3.22	41.32
La. New Orleans	3.84	3.99	3.34	4.55	4.38	4.48	6.72	5.34	5.03	2.84	3.34	4.10	53.90
Maine Portland	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.52	3.20	4.17	3.85	42.85
Md. Baltimore	3.43	2.89	3.82	3.60	3.98	3.29	4.22	5.19	3.38	3.18	3.13	2.99	43.05
Mass. Boston	3.94	3.32	4.22	3.77	3.34	3.48	3.88	3.66	3.46	3.14	3.63	3.03	42.77
Mich. Detroit	2.05	2.08	2.42	3.00	3.53	2.83	2.82	2.86	2.44	2.63	2.21	2.08	30.95
Miss. Sault Ste. Marie	2.07	1.50	1.81	2.16	2.77	3.70	2.48	2.89	3.81	2.82	3.33	2.28	31.22
Minn. Duluth	1.15	0.96	1.62	2.36	3.29	4.27	3.54	3.81	2.86	2.17	1.78	1.16	28.97
Minneapolis-St. Paul	0.70	0.78	1.53	1.85	3.19	4.00	3.27	3.18	2.43	1.50	1.40	0.86	24.78
Miss. Jackson	5.18	4.96	5.74	4.91	4.88	3.70	4.76	3.33	2.53	2.04	3.90	5.30	50.82
Mo. Kansas City	1.41	1.24	2.49	3.56	4.40	4.57	3.19	3.77	3.25	2.86	1.80	1.53	34.07
Mont. Great Falls	0.61	0.74	0.92	0.98	2.10	2.90	1.28	1.26	1.20	0.73	0.75	0.60	14.07
Nebr. Omaha	0.82	0.98	1.45	2.56	3.48	4.53	3.37	3.08	2.63	1.73	1.26	0.80	27.66
Nev. Reno	1.19	1.02	0.68	0.54	0.52	0.37	0.27	0.17	0.23	0.51	0.57	1.08	7.15
N.H. Concord	3.23	2.48	3.26	3.31	3.17	3.60	3.41	2.96	3.75	2.06	3.72	3.25	38.80
N.J. Atlantic City	3.56	3.13	3.91	3.41	3.51	2.83	3.72	4.00	3.31	3.20	3.66	3.22	42.36
N.Mex. Albuquerque	0.41	0.38	0.48	0.47	0.75	0.57	1.20	1.33	0.05	0.75	0.38	0.46	8.13
N.Y. Albany	2.47	2.20	2.72	2.77	3.47	3.25	3.49	3.07	3.58	2.77	2.70	2.59	35.08
Buffalo	2.84	2.72	3.24	3.01	2.95	2.64	2.67	3.05	3.13	3.00	3.60	3.00	35.65
New York ¹	3.31	2.84	4.01	3.43	3.67	3.31	3.70	4.44	3.87	3.14	3.39	3.26	42.37
N.C. Charlotte	3.53	3.55	4.39	3.49	3.11	4.61	4.88	4.22	3.49	2.98	3.62	4.32	43.88
N.Dak. Bismarck	0.44	0.43	0.78	1.22	1.07	3.40	2.10	1.73	1.19	0.85	0.59	0.36	15.15
Ohio Cincinnati	3.67	2.90	3.89	3.63	3.80	4.18	3.59	3.28	2.71	2.24	2.85	2.77	39.51
Cleveland	2.67	2.38	3.13	3.41	3.52	3.43	3.31	3.28	2.90	2.42	2.61	2.34	35.35
Columbus	3.16	2.31	3.16	3.49	4.00	4.16	3.93	2.86	2.65	2.11	2.60	2.34	36.67
Oklahoma City	1.31	1.37	1.97	3.12	5.10	4.47	2.37	2.52	3.02	2.51	1.56	1.41	30.82
Oreg. Portland	5.37	4.22	3.83	2.09	1.99	1.67	0.41	0.65	1.68	3.61	5.33	6.38	37.18
Pa. Philadelphia	3.32	2.80	3.80	3.40	3.74	4.05	4.16	4.63	3.46	2.78	3.40	2.94	42.48
Pittsburgh	2.97	2.19	3.13	3.08	3.91	3.78	3.88	3.31	2.54	2.52	2.24	2.40	36.14
R.I. Providence	3.81	3.10	4.14	3.75	3.35	3.26	2.91	3.96	3.52	3.10	4.11	3.62	42.13
S.C. Columbia	3.02	3.74	4.26	4.01	3.54	3.85	6.09	5.74	4.31	2.38	2.36	3.52	46.82
S. Dak. Sioux Falls	0.62	0.93	1.54	2.31	3.38	4.35	2.84	3.59	2.61	1.25	1.00	0.74	25.16
Tenn. Memphis	6.07	4.69	5.07	4.63	4.28	3.68	3.84	2.97	2.82	2.72	4.38	4.93	49.73
Nashville	5.49	4.51	5.19	3.74	3.72	3.25	3.72	2.86	2.87	2.32	3.28	4.19	45.15
Tex. Dallas	2.32	2.55	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.70	2.07	34.55
El Paso	0.46	0.41	0.35	0.29	0.40	1.29	1.19	1.14	0.85	0.33	0.49	7.89	
Houston	3.78	3.44	2.07	3.24	4.32	3.69	4.29	4.27	4.26	3.77	3.88	4.36	45.95
Utah Salt Lake City	1.35	1.18	1.66	1.76	1.40	0.98	0.58	0.87	0.53	1.15	1.30	1.24	18.90
Vt. Burlington	1.85	1.79	2.11	2.63	2.99	3.49	3.85	3.37	3.31	2.97	2.62	2.13	33.21
Va. Norfolk	3.33	3.21	3.45	3.18	3.88	3.61	5.92	5.97	4.22	2.92	3.05	2.74	44.94
Richmond	3.46	2.90	3.42	3.15	3.72	3.75	5.61	5.54	3.05	3.00	3.04	2.97	44.21
Wash. Seattle-Tacoma	5.73	4.24	3.79	2.40	1.73	1.58	0.81	0.95	2.05	4.02	5.35	6.20	38.94
Spokane	2.44	1.86	1.50	0.91	1.21	1.49	0.38	0.41	0.75	1.57	2.24	2.43	17.19
W.Va. Charleston	4.32	3.53	4.34	3.63	3.71	3.60	5.67	3.95	2.92	2.68	2.79	3.25	44.43
Wis. Milwaukee	1.83	1.40	2.31	2.53	3.16	3.64	2.95	3.06	2.72	2.10	2.18	1.63	20.51
Wyo. Cheyenne	0.52	0.56	1.21	1.88	2.52	2.11	1.82	1.44	1.10	0.83	0.62	0.45	15.06
P.R. San Juan	4.70	2.90	2.20	3.72	7.12	5.66	6.25	7.13	6.76	5.83	6.49	5.45	64.21

¹ City office data.

No. 278. AVERAGE NUMBER OF DAYS WITH PRECIPITATION OF 0.01 INCH OR MORE—SELECTED CITIES

[Airport data for period of record through 1968, except as noted]

STATION	Length of record (yrs.)	AVERAGE NUMBER OF DAYS WITH PRECIPITATION OF 0.01 INCH OR MORE												An- nual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
Ala. Mobile	27	11	10	11	8	8	12	17	13	10	6	7	11	123	
Alaska Juneau	25	18	18	17	17	15	17	17	20	24	20	21	21	220	
Ariz. Phoenix	29	4	4	3	2	1	1	4	5	3	3	2	4	34	
Ark. Little Rock	26	10	9	10	11	10	8	8	7	7	6	8	9	102	
Calif. Los Angeles	33	6	6	5	4	1	1	1	(Z)	1	3	3	5	35	
Sacramento	29	10	8	8	6	3	1	(Z)	(Z)	1	3	6	9	57	
San Francisco	41	11	10	10	6	3	1	(Z)	(Z)	1	4	5	5	62	
Colo. Denver	34	6	8	8	9	9	9	9	8	6	5	5	5	87	
Conn. Hartford	14	10	11	11	11	11	10	10	10	9	8	11	11	125	
Del. Wilmington	21	11	10	12	11	12	9	9	9	8	7	9	8	116	
D.C. Washington	27	10	9	11	10	11	9	9	9	8	7	8	9	111	
Fla. Jacksonville	27	8	8	8	6	8	12	15	14	14	9	6	8	115	
Miami	26	6	6	6	6	6	10	15	16	16	15	8	7	128	
Ga. Atlanta	34	11	10	12	9	9	10	12	9	7	6	8	10	115	
Hawaii Honolulu	19	10	10	9	9	8	6	7	7	7	10	10	10	101	
Idaho Boise	29	12	10	9	8	8	7	2	2	3	6	10	11	90	
Ill. Chicago	26	10	10	10	12	13	12	10	9	8	8	7	10	120	
Peoria	29	9	8	11	12	11	10	9	8	8	7	8	9	109	
Ind. Indianapolis	29	11	10	13	12	13	10	9	8	7	7	10	11	121	
Iowa Des Moines	29	7	7	10	11	11	11	9	9	9	7	6	7	104	
Kans. Wichita	15	5	5	7	7	10	9	9	7	8	5	4	6	82	
Ky. Louisville	21	12	11	13	12	11	10	11	10	9	7	10	11	122	
La. New Orleans	20	10	10	9	7	8	10	15	13	9	6	6	10	112	
Maine Portland	28	11	10	11	12	13	11	9	10	8	9	12	11	126	
Md. Baltimore	18	10	9	12	12	11	9	8	10	7	6	9	9	111	
Mass. Boston	17	12	11	12	12	12	11	9	10	9	9	11	10	128	
Mich. Detroit	33	13	12	13	12	12	11	9	9	9	9	11	13	132	
Minn. Sault Ste. Marie	27	19	15	13	12	11	11	10	10	13	13	18	19	164	
Duluth	27	11	10	11	11	13	12	11	11	11	9	11	12	133	
Maine Minneapolis-St. Paul	30	8	7	10	9	12	12	10	10	9	7	8	9	112	
Miss. Jackson	5	12	10	9	9	9	6	9	12	7	4	6	7	107	
Mo. Kansas City	35	7	7	9	11	11	11	8	8	8	6	6	7	98	
St. Louis	11	7	7	11	11	10	9	9	7	7	5	7	7	99	
Mont. Great Falls	31	8	8	9	9	11	13	7	7	7	5	7	6	88	
Nebr. Omaha	33	7	7	9	9	11	11	9	10	8	6	5	6	98	
Nev. Reno	26	6	5	6	4	5	3	2	2	2	2	5	6	48	
N.H. Concord	27	11	10	11	11	12	11	10	10	9	9	11	10	125	
N.J. Atlantic City	25	11	10	11	11	10	9	9	9	7	7	9	9	112	
N. Mex. Albuquerque	29	4	4	4	4	4	4	4	9	9	5	3	4	58	
N.Y. Albany	22	13	11	12	13	13	11	10	10	10	9	12	12	133	
Buffalo	25	20	17	16	15	12	9	10	10	11	10	16	16	164	
New York	100	11	10	12	11	11	10	10	11	10	8	8	9	10	121
N.C. Charlotte	29	10	10	11	9	9	9	12	10	7	6	7	10	110	
Raleigh	24	10	10	10	9	10	10	12	11	8	7	8	9	114	
N. Dak. Bismarck	29	8	7	8	8	10	12	9	9	7	5	6	7	96	
Ohio Cincinnati	53	12	11	13	12	12	13	10	9	8	9	10	11	132	
Cleveland	27	16	15	16	15	13	11	10	9	9	10	14	16	153	
Columbus	29	13	12	14	13	13	11	11	9	8	8	11	12	135	
Oklahoma City	29	5	7	7	8	10	9	7	7	7	6	5	5	82	
Oreg. Portland	28	20	18	18	14	12	10	3	5	7	13	18	19	163	
Pa. Philadelphia	28	11	9	11	11	11	10	9	10	8	7	9	10	116	
Pittsburgh	16	15	14	16	14	12	11	10	9	8	10	13	16	148	
R.I. Providence	15	11	10	11	11	11	11	10	10	9	8	11	11	124	
S.C. Columbia	21	10	10	11	9	8	9	12	11	7	6	7	9	110	
S. Dak. Sioux Falls	23	5	6	8	8	10	12	9	9	8	5	5	6	92	
Tenn. Memphis	18	10	10	11	10	8	8	9	8	6	5	8	10	103	
Nashville	27	11	11	12	11	10	10	10	9	7	6	9	11	117	
Tex. Dallas	28	7	8	7	9	9	6	5	5	6	5	6	6	80	
El Paso	20	3	3	3	2	2	4	8	7	4	3	3	4	44	
Houston	38	11	10	8	8	8	8	9	9	9	7	8	10	103	
Utah Salt Lake City	40	10	9	9	9	9	8	5	4	6	5	6	9	87	
Vt. Burlington	25	13	12	12	12	13	12	12	12	11	11	14	14	148	
Va. Norfolk	20	10	10	11	11	10	9	11	11	11	8	8	8	115	
Richmond	31	10	9	11	10	11	9	9	10	10	8	7	8	9	113
Wash. Seattle-Tacoma	24	19	16	18	14	10	10	5	7	9	15	19	21	162	
Spokane	21	15	12	12	8	9	8	8	5	6	9	13	16	115	
W. Va. Charleston	21	15	14	15	14	13	10	13	10	9	9	11	13	147	
Wis. Milwaukee	28	11	9	12	12	12	11	11	9	9	8	9	10	120	
Wyo. Cheyenne	33	6	7	10	10	12	12	11	10	7	5	6	5	100	
P.R. San Juan	18	17	13	12	15	20	18	21	19	19	18	17	18	19	207

Z. Less than 1/2 day. 1. City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data. Monthly with annual summary.

No. 279. AVERAGE TOTAL SNOW AND SLEET—SELECTED CITIES

(In inches. Airport data, for period of record through 1968. T denotes trace)

STATION	Length of record (yrs.)													An- nual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Ala. Mobile	27	0.1	0.1	0.1	-	-	-	-	-	-	T	0.1	0.4	
Alaska Juneau	25	22.0	21.7	18.3	5.6	0.1	-	-	-	T	1.1	10.5	23.9	103.2
Ariz. Phoenix	31	T	T	-	T	-	-	-	-	-	-	0.1	1.2	T
Ark. Little Rock	26	2.5	1.5	0.4	-	-	-	-	-	-	-	-	-	T
Calif. Los Angeles	33	T	T	-	-	-	-	-	-	-	-	-	-	T
Sacramento	20	T	T	-	-	-	-	-	-	-	-	-	-	T
San Francisco	41	T	T	T	-	-	-	-	-	1.5	2.9	7.4	5.9	58.3
Colo. Denver	34	8.6	8.3	12.5	0.5	1.7	T	-	-	-	-	T	1.8	12.0
Conn. Hartford	14	12.2	12.7	14.6	1.7	T	-	-	-	-	T	1.4	4.6	22.5
Del. Wilmington	21	5.9	6.2	4.3	0.1	T	-	-	-	-	T	0.8	4.1	18.3
D.C. Washington	25	5.3	5.4	2.7	T	T	-	-	-	-	-	-	-	-
Fla. Jacksonville	27	T	0.1	T	-	-	-	-	-	-	-	-	T	0.1
Miami	26	-	-	-	-	-	-	-	-	-	-	-	-	-
Ga. Atlanta	34	0.8	0.5	0.3	-	-	-	-	-	-	-	T	0.2	1.8
Hawaii Honolulu	22	-	-	-	-	-	-	-	-	-	-	-	-	-
Idaho Boise	29	7.8	4.0	2.0	0.6	0.1	T	-	-	-	T	1.6	5.1	21.2
Ill. Chicago	26	9.4	8.1	7.1	0.8	T	-	-	-	-	0.4	2.6	9.9	38.3
Pearl	25	5.4	4.8	4.7	0.4	T	-	-	-	-	0.1	1.8	5.2	22.4
Ind. Indianapolis	37	4.8	5.0	3.7	0.5	T	-	-	-	-	T	2.1	4.2	20.3
Iowa Des Moines	29	8.3	6.4	7.7	1.1	T	-	-	-	-	0.1	2.1	6.0	31.7
Kans. Wichita	15	4.2	3.0	2.7	0.1	-	-	-	-	-	T	0.5	3.4	13.9
Ky. Louisville	21	5.6	4.4	3.8	0.1	-	-	-	-	-	T	1.5	2.5	17.9
La. New Orleans	22	T	0.1	-	-	-	-	-	-	-	T	0.1	-	-
Maine Portland	28	19.4	19.5	13.7	2.9	0.3	-	-	-	-	T	0.2	3.8	13.5
Md. Baltimore	18	6.1	6.7	5.8	0.1	T	-	-	-	-	T	1.5	5.1	25.3
Mass. Boston	33	12.9	11.3	8.2	0.7	T	-	-	-	-	T	1.3	7.3	41.7
Mich. Detroit	33	8.0	7.9	5.6	1.2	T	-	-	-	-	T	2.5	5.5	31.7
Minn. Sault Ste. Marie	27	23.0	17.8	14.7	4.5	0.7	T	-	-	0.2	2.0	14.9	26.4	104.2
Duluth	25	15.2	11.9	14.2	6.8	1.1	T	-	-	T	1.2	10.0	15.0	76.4
Minneapolis	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Paul	30	7.6	8.3	10.9	2.5	0.2	-	-	-	0.1	0.3	5.8	7.8	43.5
Miss. Jackson	5	0.3	0.7	1.1	-	-	-	-	-	-	T	1.1	4.7	20.2
Mo. Kansas City	35	5.8	4.0	4.0	0.6	T	-	-	-	-	T	1.2	2.9	17.2
St. Louis	32	4.4	3.9	4.7	0.1	T	-	-	-	1.3	2.3	7.9	8.1	55.5
Mont. Great Falls	31	9.1	9.0	9.7	6.3	1.5	0.4	T	-	-	-	-	-	-
Nebr. Omaha	33	8.0	7.2	7.5	0.8	0.1	-	-	-	-	T	0.3	5.7	31.7
Nev. Reno	26	5.4	5.8	4.3	5.4	1.5	1.0	T	-	-	T	0.2	1.9	3.9
N.H. Concord	27	17.9	14.4	11.2	1.8	0.2	-	-	-	-	T	3.7	12.7	61.9
N.J. Atlantic City	24	5.1	5.2	3.3	0.4	-	-	-	-	-	T	0.5	2.9	17.2
N. Mex. Albuquerque	29	1.9	1.8	1.6	0.3	T	-	-	-	-	T	1.3	2.8	9.7
N.Y. Albany	22	16.1	15.2	12.3	2.4	0.1	-	-	-	-	T	0.1	3.1	13.3
Buffalo	25	21.5	17.8	11.8	2.7	0.2	-	-	-	-	T	0.2	12.4	19.9
New York	100	7.7	8.6	5.4	1.0	T	-	-	-	-	T	1.0	6.1	29.8
N.C. Charlotte	29	2.3	1.1	1.0	T	-	-	-	-	-	-	0.1	0.4	4.9
Raleigh	24	3.2	2.2	1.0	T	-	-	-	-	-	-	0.1	0.9	7.4
N. Dak. Bismarck	29	6.7	5.8	8.1	3.8	1.3	T	-	-	-	0.3	1.1	4.8	5.7
Ohio Cincinnati	53	5.4	4.2	3.3	0.5	T	-	-	-	-	0.1	1.6	4.1	19.2
Cleveland	27	10.3	10.8	10.3	2.2	-	-	-	-	-	T	0.7	5.6	50.5
Columbus	21	7.0	6.3	5.1	0.6	T	-	-	-	-	T	0.1	3.1	6.4
Oklahoma City	29	3.2	2.4	1.9	T	-	-	-	-	-	T	0.3	1.5	9.3
Oreg. Portland	28	4.6	0.9	0.7	T	T	-	-	-	-	T	0.3	1.5	8.0
Pa. Philadelphia	22	5.7	6.3	4.0	0.1	T	-	-	-	-	T	0.9	4.7	21.7
Pittsburgh	16	11.1	10.2	10.0	1.9	0.3	-	-	-	-	0.2	3.8	8.7	46.2
R.I. Providence	15	10.8	9.7	10.8	0.7	-	-	-	-	-	0.1	0.5	7.0	40.5
S.C. Columbia	21	5.3	0.3	0.2	-	-	-	-	-	-	T	0.4	1.2	-
S. Dak. Sioux Falls	23	5.7	10.0	15.9	1.9	T	-	-	-	-	T	1.3	3.1	6.6
Tenn. Memphis	18	2.4	1.3	1.6	-	-	-	-	-	-	-	0.8	2.2	11.3
Nashville	27	3.8	2.6	1.9	T	-	-	-	-	-	-	-	-	-
Tex. Dallas	28	1.4	0.5	0.2	-	-	-	-	-	-	-	T	0.2	2.3
El Paso	29	1.3	0.8	0.4	T	-	-	-	-	-	-	0.8	1.0	4.3
Houston	36	2.0	0.2	0.5	-	-	-	-	-	-	-	T	0.4	-
Utah Salt Lake City	40	13.4	9.5	9.5	3.8	0.5	T	-	-	0.1	0.7	6.1	11.1	54.7
Vt. Burlington	25	18.0	17.8	11.2	2.2	0.3	-	-	-	T	0.1	6.3	16.4	72.3
Va. Norfolk	20	3.6	1.8	0.6	0.1	-	-	-	-	-	T	0.5	2.3	15.6
Richmond	31	5.8	3.5	2.8	0.1	-	-	-	-	-	T	1.3	3.1	14.7
Wash. Seattle-Tacoma	24	6.1	2.1	2.1	T	-	-	-	-	-	0.4	5.6	16.1	54.0
Spokane	21	18.2	7.7	5.3	0.5	0.2	T	-	-	-	0.2	2.9	4.9	28.7
W. Va. Charleston	21	8.5	7.7	4.1	0.4	T	-	-	-	T	1.0	2.6	6.1	43.8
Wis. Milwaukee	28	13.0	8.5	9.4	1.1	T	-	-	-	T	1.0	6.2	9.2	51.8
Wyo. Cheyenne	33	6.0	6.0	11.3	0.7	3.9	0.4	-	-	0.6	2.6	6.1	5.2	-
P.R. San Juan	14	-	-	-	-	-	-	-	-	-	-	-	-	-

- Represents zero. 1 City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data. Monthly with annual summary.

No. 280. AVERAGE RELATIVE HUMIDITY,

[Airport data except as noted. Eastern standard time. For period of record through 1968, except as noted.
Relative humidity observations were

STATION	Length of rec- ord (yrs.)	JAN.		FEB.		MAR.		APR.		MAY		JUNE	
		7:00 a.m.	1:00 p.m.										
		7:00 a.m.	1:00 p.m.										
Ala. Mobile	6	80	64	77	55	83	64	89	55	87	53	88	55
Alaska Juneau	25	80	80	83	82	83	78	86	74	89	73	89	75
Ariz. Phoenix	8	67	44	62	39	60	34	47	25	37	18	37	10
Ark. Little Rock	8	81	60	79	56	77	54	79	56	86	57	87	54
Calif. Los Angeles	9	64	50	69	55	75	58	78	60	79	63	84	69
	Sacramento	8	91	88	88	80	85	70	84	81	85	54	79
	San Francisco	5	87	79	80	71	79	67	81	65	85	65	86
Colo. Denver	8	60	43	68	46	68	41	66	36	69	38	74	41
Conn. Hartford	9	73	58	74	57	75	54	71	44	73	45	78	51
Del. Wilmington	21	76	61	76	59	75	54	74	51	76	53	79	53
D.C. Washington	8	69	54	70	56	69	48	69	47	71	49	76	51
Fla. Jacksonville	32	87	66	86	52	85	49	84	47	83	48	85	55
	Miami ¹	22	86	66	86	57	83	50	80	56	81	59	84
Ga. Atlanta	8	79	60	76	56	78	51	81	54	84	56	87	61
Hawaii Honolulu	6	78	78	77	76	77	74	75	71	73	68	69	64
Idaho Boise	29	82	75	82	70	75	55	72	48	71	47	69	43
Ill. Chicago	5	71	65	68	59	72	59	73	58	71	51	73	53
	Peoria	9	77	68	79	65	83	68	70	58	81	58	82
Ind. Indianapolis	9	70	67	77	64	79	64	77	56	82	58	82	56
Iowa Des Moines	7	81	73	83	70	82	65	81	60	80	58	84	60
Kans. Wichita	15	80	63	79	59	75	51	77	50	82	54	84	54
Ky. Louisville	8	78	64	77	63	76	60	76	54	84	57	86	58
La. New Orleans	20	86	67	86	64	85	60	88	60	89	60	90	63
Maine Portland	28	78	63	78	60	76	59	74	56	75	57	78	59
Md. Baltimore	15	73	57	74	56	73	51	73	50	71	51	79	50
Mass. Boston ¹	12	69	58	71	59	69	56	69	54	68	54	70	55
Mich. Detroit	35/31	80	70	80	66	78	61	74	53	71	51	74	53
	Sault Ste. Marie	27	83	76	83	73	84	68	80	61	79	66	85
Minn. Duluth	7	73	65	71	59	74	60	77	57	76	54	81	61
	Minneapolis-St. Paul	9	75	68	75	64	79	65	78	56	78	55	82
Miss. Jackson	5	86	64	86	58	87	66	91	58	91	56	91	55
Mo. Kansas City	8	74	60	72	57	72	54	72	51	76	53	82	61
	St. Louis	8	78	60	75	56	77	56	74	52	79	55	82
Mont. Great Falls	7	67	63	67	59	64	54	70	51	70	46	72	48
Nebr. Omaha	5	76	65	74	57	74	51	76	54	75	51	81	60
Nev. Reno	5	72	64	70	54	64	44	64	38	64	34	69	36
N.H. Concord ¹	23	78	59	77	56	76	53	74	48	74	47	77	50
N.J. Atlantic City ¹	5	77	58	77	58	77	52	73	46	77	49	81	51
N. Mex. Albuquerque	8	65	47	64	45	53	32	45	26	42	23	44	24
N.Y. Albany ¹	18	78	65	78	62	77	57	73	50	73	50	76	51
	Buffalo	8	77	72	73	70	80	68	76	60	75	56	77
	New York ³	49	68	60	68	58	68	55	68	52	71	53	73
N.C. Charlotte	8	79	58	76	53	80	49	81	49	84	52	88	57
	Raleigh ¹	19	81	56	81	54	79	49	79	46	82	51	84
N. Dak. Bismarck	9	71	65	74	67	76	61	77	51	77	48	83	54
Ohio Cincinnati	6	78	65	79	62	76	60	76	54	77	52	78	50
	Cleveland	8	77	70	79	70	80	68	76	59	77	58	70
	Columbus	9	77	67	78	66	75	60	77	54	80	56	81
Oklahoma Oklahoma City ¹	10	81	63	86	62	77	55	78	52	86	53	87	59
Oreg. Portland	28	88	82	87	80	86	72	87	68	88	66	85	66
Pa. Philadelphia	9	73	69	71	57	72	55	70	49	75	52	76	53
	Pittsburgh	9	77	66	77	65	77	60	74	52	77	53	80
R.I. Providence	5	68	56	69	53	70	56	68	48	68	48	74	26
S.C. Columbia ⁴	19	85	54	85	52	83	48	81	45	82	46	83	49
S. Dak. Sioux Falls	5	77	65	77	62	78	57	83	58	81	52	85	50
Tenn. Memphis	29	80	64	80	61	78	57	79	54	82	55	83	60
	Nashville	25	83	67	83	62	81	87	81	50	84	53	84
Tex. Dallas	9	77	60	76	56	74	54	79	56	83	58	82	58
	El Paso	8	60	43	51	36	46	31	34	22	35	21	42
	Houston	8	84	64	84	60	86	59	89	63	90	61	91
Utah Salt Lake City	9	78	70	78	65	76	71	51	67	44	64	37	62
Vt. Burlington ¹	22	79	67	77	65	76	60	74	54	72	53	76	55
Va. Norfolk	20	76	60	76	57	74	53	74	51	78	56	79	57
	Richmond	34	81	57	79	52	78	48	75	46	78	49	81
Wash. Seattle-Tacoma	9	82	81	80	77	82	76	85	73	84	70	83	67
	Spokane	9	84	81	82	77	78	67	77	55	75	51	73
W. Va. Charleston	21	77	62	77	59	74	53	76	48	82	50	86	53
Wis. Milwaukee	8	76	69	77	67	82	68	79	62	78	60	81	60
Wyo. Cheyenne	9	54	44	61	47	62	45	65	40	68	30	72	42
P.R. San Juan	13	85	65	83	63	80	60	79	64	82	68	82	68

¹ Record through 1965.² Slash numbers represent A.M./P.M.³ City office data.⁴ Record through 1967.

Relative Humidity

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PERCENT—SELECTED CITIES

Hours selected to give, for most of country, approximation of average highest and average lowest humidity values, made on the half-hour prior to 1957

JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		ANNUAL		STATION
7:00 a.m.	1:00 p.m.													
88	61	89	61	85	58	88	50	84	55	82	63	84	57	Ala.... Mobile.
89	80	90	83	92	87	89	86	86	85	83	82	87	80	Alaska.... Juneau.
49	30	58	36	57	34	53	27	63	40	70	48	55	33	Ariz.... Phoenix.
88	59	88	56	90	69	85	48	83	57	80	61	83	56	Ark.... Little Rock.
86	68	84	67	81	63	78	59	77	61	70	55	77	61	Calif.... Los Angeles.
76	48	77	51	76	52	79	58	87	79	91	87	83	65	Sacramento.
88	68	88	68	81	64	81	67	82	73	83	75	83	69	San Francisco.
71	30	70	37	72	39	80	31	69	43	65	45	68	40	Colo.... Denver.
79	60	84	54	87	64	85	50	79	56	79	62	78	53	Conn.... Hartford.
80	53	84	56	85	55	85	53	81	56	77	60	79	55	Del.... Wilmington.
76	51	78	53	79	53	78	49	73	51	71	57	73	51	D.C.... Washington.
87	57	90	59	90	62	90	57	88	55	88	57	87	55	Fla.... Jacksonville.
84	64	86	63	88	66	88	63	87	61	86	59	85	60	Miami. ¹
91	65	90	62	89	60	83	50	83	55	81	60	83	57	Ga.... Atlanta.
70	66	72	68	72	67	74	69	77	74	79	74	74	71	Hawaii.... Honolulu.
53	34	52	35	59	40	68	49	79	67	83	76	70	53	Idaho.... Boise.
76	56	80	56	79	53	76	50	76	62	79	71	75	58	Ill.... Chicago.
86	59	88	59	88	59	84	56	82	65	82	71	83	62	Pearl City.
86	58	89	60	88	55	86	54	84	66	81	72	82	61	Ind.... Indianapolis.
83	59	86	58	88	63	78	53	81	64	82	71	82	63	Iowa.... Des Moines.
80	51	79	50	81	55	80	52	78	55	79	60	80	55	Kans.... Wichita.
87	58	88	56	90	58	85	52	80	61	76	54	82	59	Ky.... Louisville.
90	65	91	66	89	65	87	58	86	59	88	67	88	63	La.... New Orleans.
80	59	84	59	86	60	85	50	85	64	81	62	80	60	Maine.... Portland.
81	52	84	55	85	55	82	52	77	53	75	58	78	53	Md.... Baltimore.
72	54	76	57	78	57	77	55	75	58	69	57	72	56	Mass.... Boston. ¹
75	51	80	53	83	54	82	54	79	64	80	70	78	58	Mich.... Detroit.
88	61	92	62	92	67	98	66	87	76	85	78	88	67	Minn.... Sault Ste. Marie.
84	58	87	64	87	63	79	59	79	68	77	71	79	62	Minn.... Duluth.
85	57	87	57	89	63	83	57	82	66	78	70	81	61	Minn.... Minneapolis-St. Paul.
93	59	92	61	92	58	92	49	90	56	88	67	90	53	Miss.... Jackson.
80	58	81	67	83	58	72	48	75	57	75	62	76	55	Mo.... Kansas City.
84	57	86	56	88	56	80	50	81	58	61	65	80	56	St. Louis.
65	37	62	37	66	48	57	41	63	54	66	61	66	50	Mont.... Great Falls.
82	50	85	50	87	63	80	53	81	60	78	65	79	58	Nebr.... Omaha.
69	30	74	36	74	38	72	38	75	60	70	65	70	45	Nev.... Reno.
80	50	86	52	88	53	86	51	83	59	78	59	80	53	N.H.... Concord. ¹
83	56	87	58	87	57	85	52	83	55	78	59	80	54	N.J.... Atlantic City. ¹
61	36	65	40	55	42	54	34	63	44	68	52	57	37	N.Mex.... Albuquerque.
77	50	84	53	87	54	86	54	81	62	80	66	79	58	N.Y.... Albany. ¹
79	55	84	62	81	59	81	60	81	68	79	72	79	63	Buffalo.
75	55	78	58	79	58	76	55	73	59	69	60	72	57	New York. ³
90	59	90	58	90	54	87	50	84	51	80	55	84	64	N.C.... Charlotte.
87	50	91	57	90	58	90	53	89	51	76	54	83	53	Raleigh. ¹
82	48	80	43	82	49	75	45	76	53	73	64	77	55	N. Dak.... Bismarck.
84	55	86	55	87	55	81	49	79	61	80	69	80	57	Ohio.... Cincinnati.
82	56	85	60	84	58	78	57	77	65	76	71	79	62	Cleveland.
83	54	88	57	88	57	82	53	81	64	79	69	81	59	Columbus.
84	54	83	51	85	56	82	53	79	64	79	61	82	56	Oklahoma City. ¹
84	62	85	65	88	68	91	80	89	82	87	84	87	73	Oreg.... Portland.
79	53	80	54	83	55	81	51	76	55	73	59	76	54	Pa.... Philadelphia.
83	51	87	55	87	55	80	49	80	61	79	68	80	57	Pittsburgh.
77	56	78	55	79	53	78	51	75	57	74	60	73	54	R.I.... Providence.
86	52	89	53	90	55	90	49	88	47	85	52	86	50	S.C.... Columbia. ⁴
85	53	85	52	88	61	79	51	82	60	79	69	81	58	S.Dak.... Sioux Falls.
85	57	87	56	88	54	84	50	81	55	80	62	82	57	Tenn.... Memphis.
86	55	89	55	89	52	88	52	84	58	84	65	85	57	Nashville. ¹
78	51	77	50	82	56	81	52	81	57	77	60	79	55	Tex.... Dallas.
58	41	59	42	64	47	55	32	59	40	65	46	52	36	El Paso.
91	59	91	59	88	60	86	52	85	60	84	64	87	60	Houston.
50	25	56	30	62	36	67	39	74	58	79	72	67	47	Utah.... Salt Lake City.
77	54	81	56	83	59	83	59	81	68	79	68	78	60	Vt.... Burlington. ¹
82	60	85	63	84	61	84	60	80	66	76	78	70	58	Va.... Norfolk.
85	56	88	57	89	56	89	59	82	50	81	54	82	52	Richmond.
85	67	85	71	88	77	88	82	85	82	84	83	84	75	Wash.... Seattle-Tacoma.
60	38	61	44	68	48	80	67	87	82	87	85	76	62	Spokane.
89	61	92	56	90	53	88	52	80	55	78	61	82	55	W. Va.... Charleston.
83	60	87	62	88	62	80	62	80	67	80	72	81	64	Wis.... Milwaukee.
70	34	66	35	67	37	55	33	57	40	56	44	63	40	Wyo.... Cheyenne.
82	68	83	67	83	68	83	67	85	67	84	67	83	60	P.R.... San Juan.

Source: Dept. of Commerce, Environmental Science Services Administration; Local Climatological Data, Monthly with annual summary.

No. 281. AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE—SELECTED CITIES

[Airport data, for period of record through 1968, except as noted]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.-----Mobile ¹ -----	48	49	51	57	65	69	67	61	63	64	72	62	48	61
Alaska-----Juneau-----	23	31	31	38	39	38	34	30	31	24	18	24	18	31
Ariz.-----Phoenix-----	73	77	80	83	88	93	94	84	85	89	88	84	77	86
Ark.-----Little Rock-----	26	45	53	56	59	65	71	69	71	66	70	56	48	62
Calif.-----Los Angeles ² -----	28	72	72	73	68	66	66	81	82	78	74	74	72	73
Sacramento-----	20	45	61	69	79	85	91	97	95	93	86	64	45	78
San Francisco ² -----	32	56	62	68	72	72	73	66	65	72	71	63	54	67
Colo.-----Denver-----	19	73	71	71	66	64	70	71	72	76	75	66	68	70
Conn.-----Hartford-----	14	56	56	57	54	59	59	62	63	62	59	54	51	58
Del.-----Wilmington ¹ -----	25	50	54	57	57	59	64	63	61	60	60	54	51	58
D.C.-----Washington-----	20	50	52	57	55	57	60	63	62	63	61	52	49	58
Fla.-----Jacksonville-----	18	58	61	65	71	69	59	59	58	49	56	60	55	60
Miami ² -----	22	68	74	74	72	68	62	62	63	58	59	66	65	66
Ga.-----Atlanta-----	34	48	52	57	65	69	67	62	66	64	68	59	59	69
Hawaii-----Honolulu-----	16	65	64	68	69	70	74	76	77	75	68	60	59	69
Idaho-----Boise-----	29	42	51	61	67	70	76	89	85	82	88	46	40	67
Ill.-----Chicago-----	26	44	47	51	52	61	67	70	68	64	62	42	41	57
Ind.-----Peoria-----	25	45	49	51	55	60	66	66	69	67	65	46	41	58
Ind.-----Indianapolis-----	26	41	51	52	55	62	69	71	73	69	67	45	42	59
Iowa-----Des Moines-----	18	51	55	55	54	60	66	72	71	66	66	52	48	60
Kans.-----Wichita-----	15	59	59	62	61	62	69	73	74	69	70	61	59	65
Ky.-----Louisville-----	21	40	46	50	54	63	68	67	69	67	64	48	41	68
La.-----New Orleans ² -----	46	49	51	57	65	69	67	61	63	64	72	62	48	61
Maine-----Portland-----	28	55	60	58	57	57	60	66	66	64	63	59	48	59
Md.-----Baltimore-----	18	52	55	50	54	58	65	67	62	63	61	52	49	58
Mass.-----Boston-----	33	53	57	57	56	58	63	65	65	64	61	52	54	60
Mich.-----Detroit ¹ -----	32	32	43	40	52	59	65	70	65	63	58	45	27	47
Sault Ste. Marie-----	27	34	44	53	53	55	57	63	58	43	43	22	27	47
Minn.-----Duluth-----	18	51	56	58	54	57	60	67	61	52	51	35	42	55
Minneapolis-----St. Paul-----	30	50	58	54	55	58	62	69	66	61	58	40	42	58
Miss.-----Jackson ³ -----	7	44	43	54	61	67	62	67	60	59	51	47	56	56
Mo.-----Kansas City-----	35	53	56	57	59	63	69	76	73	69	68	58	51	64
Mo.-----St. Louis-----	10	52	51	53	54	63	69	71	69	64	65	50	45	59
Mont.-----Great Falls-----	27	52	59	68	63	64	65	81	77	66	62	46	48	64
Nebr.-----Omaha-----	33	55	55	54	58	62	66	70	71	67	69	54	49	62
Nev.-----Reno-----	26	66	69	74	79	70	84	92	92	91	82	70	63	80
N.H.-----Concord-----	27	49	54	51	51	53	57	62	50	55	54	42	48	54
N.J.-----Atlantic City-----	8	55	52	55	52	56	63	61	61	62	62	53	47	57
N. Mex.-----Albuquerque-----	29	72	73	73	76	80	84	76	78	81	80	77	71	77
N.Y.-----Albany-----	30	45	51	53	53	56	60	64	61	58	55	38	39	54
Buffalo-----	25	33	40	47	51	60	68	70	66	62	55	30	29	53
New York ² -----	92	50	55	57	59	62	65	66	64	63	61	53	50	60
N.C.-----Charlotte-----	18	57	58	63	68	69	71	69	71	69	71	63	60	66
Raleigh-----	14	57	57	64	61	58	60	63	60	61	64	62	57	60
N. Dak.-----Bismarck-----	29	55	56	59	58	62	62	76	73	65	62	46	48	52
Ohio.-----Cincinnati ² -----	53	42	45	51	56	61	68	70	68	67	60	46	40	58
Cleveland-----	27	31	36	45	52	59	66	68	67	64	61	55	32	52
Oklahoma City-----	17	40	43	46	52	60	66	68	67	67	61	42	34	56
Oreg.-----Portland-----	19	24	34	38	47	52	48	68	61	58	38	29	21	46
Pa.-----Philadelphia-----	26	50	54	57	56	58	64	63	62	61	60	53	51	58
Pittsburgh-----	16	39	40	48	49	49	55	64	66	64	66	44	35	54
R.I.-----Providence-----	15	56	57	57	55	59	59	60	57	59	60	51	55	57
S.C.-----Columbia-----	15	60	61	65	68	67	64	64	69	65	68	64	63	65
S. Dak.-----Sioux Falls ¹ -----	26	54	59	56	60	63	67	77	74	67	65	52	48	63
Tenn.-----Memphis-----	18	48	53	57	62	70	73	73	76	72	73	50	45	65
Nashville-----	27	41	47	52	58	62	65	64	66	64	65	52	42	58
Tex.-----Dallas-----	28	50	53	58	57	61	73	77	77	71	67	62	55	65
El Paso-----	26	77	81	83	86	89	88	79	80	83	85	82	77	83
Houston-----	7	47	50	57	54	62	72	74	70	66	73	60	50	62
Utah-----Salt Lake City-----	31	48	64	63	66	72	78	83	82	83	74	55	44	69
Burlington-----	25	40	47	52	49	56	60	65	62	56	50	31	33	52
Vt.-----Norfolk-----	14	58	57	63	64	65	67	65	63	65	63	61	58	63
Richmond-----	18	52	54	59	61	64	68	67	64	65	62	56	52	61
Wash.-----Seattle ² -----	31	28	34	42	47	52	49	63	66	53	57	28	23	45
Spokane-----	21	26	41	54	61	62	66	82	76	72	51	29	20	57
W. Va.-----Charleston ¹ -----	69	31	36	42	49	56	60	62	60	60	64	37	29	48
Wis.-----Milwaukee-----	28	44	46	50	54	59	64	71	68	61	58	42	40	56
Wyo.-----Cheyenne-----	33	62	64	64	60	57	64	68	67	69	70	61	59	64
P.R.-----San Juan-----	13	66	67	73	68	61	57	64	67	58	64	62	59	64

¹ Data not available; figures are for a nearby station. ² City office data.³ Record through 1964. ⁴ Record through 1963. ⁵ Record through 1966.

Wind Speed

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No. 282. AVERAGE WIND SPEED—SELECTED CITIES

[In miles per hour. Airport data unless otherwise noted. For period of record through 1968, except as noted]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala.-----Mobile-----	20	11.1	11.6	11.5	10.9	9.3	8.0	7.2	7.1	8.5	8.7	10.0	10.6	9.5	
Alaska-----Juneau-----	25	8.5	8.6	9.0	8.8	8.3	7.9	7.7	7.7	8.2	9.8	8.9	9.5	8.6	
Ariz.-----Phoenix-----	23	4.8	5.3	6.0	6.3	6.4	6.4	6.6	6.1	5.8	6.2	4.8	4.7	5.7	
Ark.-----Little Rock-----	26	9.0	9.4	10.2	9.7	8.3	7.7	7.1	6.7	7.1	7.0	8.2	8.5	8.2	
Calif.-----Los Angeles-----	20	6.8	7.1	7.9	8.2	8.2	7.7	7.4	7.3	6.9	6.5	6.5	6.4	7.2	
Calif.-----Sacramento-----	20	8.3	8.2	9.2	9.1	9.6	10.2	9.4	8.9	8.2	7.0	6.7	7.3	8.5	
Calif.-----San Francisco-----	41	6.9	8.4	10.2	12.0	13.2	14.0	13.7	12.9	11.1	9.2	7.1	6.6	10.4	
Colo.-----Denver-----	20	9.4	9.6	10.2	10.5	9.8	9.3	8.7	8.4	8.4	8.3	8.9	9.3	9.2	
Conn.-----Hartford-----	14	9.9	10.0	10.4	10.7	9.7	8.5	7.8	7.8	8.0	8.5	9.1	9.1	9.1	
Del.-----Wilmington-----	20	9.7	10.3	11.1	10.4	8.9	8.3	7.6	7.4	8.0	8.1	9.0	9.1	9.0	
D.C.-----Washington-----	20	10.3	10.6	11.1	10.6	9.4	8.9	8.4	8.2	8.4	8.6	9.3	9.3	9.4	
Fla.-----Jacksonville-----	19	8.6	9.9	9.8	9.5	9.0	8.8	8.0	7.7	9.0	9.0	8.6	8.3	8.8	
Fla.-----Miami-----	19	9.4	9.9	10.2	10.4	9.2	8.2	7.8	7.5	8.1	9.0	9.1	8.7	9.0	
Ga.-----Atlanta-----	30	10.8	11.3	11.1	10.3	8.7	8.0	7.5	7.1	8.1	8.4	9.2	9.9	9.2	
Hawaii-----Honolulu-----	19	9.9	10.4	10.9	11.4	12.0	12.7	13.3	13.4	11.5	10.6	11.0	10.8	11.5	
Idaho-----Boise-----	29	8.6	9.4	10.5	10.2	9.5	9.1	8.5	8.3	8.3	8.7	8.6	8.4	9.0	
Ill.-----Chicago-----	26	11.4	11.6	11.8	11.7	10.4	9.2	8.2	8.0	8.9	9.8	11.4	11.2	10.3	
Ill.-----Peoria-----	25	11.2	11.6	12.4	12.4	10.7	9.2	8.2	8.1	9.0	9.7	11.5	11.0	10.4	
Ind.-----Indianapolis-----	20	11.3	12.2	12.0	11.7	9.8	8.4	7.4	7.2	8.2	9.1	10.9	10.7	9.8	
Iowa-----Des Moines-----	19	11.8	11.9	13.5	12.7	12.0	10.6	9.2	9.0	9.9	10.9	12.1	12.0	11.4	
Kans.-----Wichita-----	15	12.8	12.8	14.8	14.8	13.5	12.8	11.3	11.6	11.9	12.5	12.4	12.5	12.8	
Ky.-----Louisville-----	21	9.6	9.7	10.4	10.1	8.0	7.1	6.6	6.2	6.7	7.1	9.0	9.2	8.8	
La.-----New Orleans-----	20	9.6	10.3	10.2	9.7	8.4	7.0	6.4	6.2	7.6	7.7	9.0	8.5	8.6	
Maine-----Portland-----	28	9.3	9.5	10.0	10.0	9.2	8.1	7.6	7.5	7.8	8.6	8.8	8.9	8.8	
Md.-----Baltimore-----	18	10.3	11.0	11.6	11.4	10.0	9.1	8.6	8.7	8.9	9.5	9.8	9.6	9.9	
Mass.-----Boston-----	11	14.8	14.7	14.5	13.8	12.9	12.0	11.3	11.2	11.5	12.5	13.4	14.2	13.1	
Mich.-----Detroit-----	35	11.5	11.5	11.5	11.1	9.9	9.0	8.2	8.0	8.9	9.5	11.4	11.3	10.1	
Mich.-----Sault Ste. Marie-----	27	10.3	10.3	10.7	11.1	10.6	9.1	8.5	8.4	9.2	9.7	10.5	10.3	9.9	
Minn.-----Duluth-----	10	12.3	12.3	12.5	13.7	12.7	11.0	10.1	10.0	11.1	11.8	12.7	11.9	11.8	
Minn.-----Minneapolis-----	St. Paul-----	30	10.5	10.7	11.5	12.6	11.7	10.8	9.3	9.2	10.0	10.5	11.2	10.6	10.7
Miss.-----Jackson-----	5	9.4	9.8	9.5	8.0	6.6	6.6	6.1	7.2	7.1	7.6	9.0	8.0	8.0	
Mo.-----Kansas City-----	29	9.9	10.3	11.7	11.6	10.4	9.9	8.8	8.8	9.0	9.1	10.2	9.9	10.0	
Mo.-----St. Louis-----	19	10.1	10.6	11.8	11.4	9.6	8.4	7.6	7.4	7.9	8.5	9.9	9.3	9.5	
Mont.-----Great Falls-----	27	16.1	15.2	13.4	13.2	11.5	11.4	10.3	10.7	11.7	14.0	15.3	16.2	13.3	
Nebr.-----Omaha-----	33	11.2	11.6	13.0	13.4	11.8	10.7	9.2	9.4	9.9	10.3	11.3	11.0	11.1	
Nev.-----Reno-----	26	6.0	6.2	7.7	8.0	7.7	7.3	6.6	6.2	5.4	5.3	5.1	5.1	6.4	
N.H.-----Concord-----	27	7.3	7.9	8.1	7.8	7.1	6.2	5.5	5.2	5.4	6.0	6.6	6.9	6.7	
N.J.-----Atlantic City-----	10	12.3	12.1	12.3	12.0	10.7	9.6	9.2	8.9	9.8	10.2	11.8	14.0	10.9	
N. Mex.-----Albuquerque-----	29	7.8	8.7	9.9	10.8	10.4	9.8	9.0	8.0	8.3	8.0	7.6	7.4	8.8	
N.Y.-----Albany-----	30	9.8	10.4	10.5	10.4	9.1	8.1	7.3	7.0	7.3	8.1	8.9	9.0	8.8	
N.Y.-----Buffalo-----	29	14.6	14.4	14.1	13.2	12.1	11.5	10.7	10.3	10.9	11.7	13.4	13.9	12.6	
N.C.-----New York ¹ -----	49	11.0	11.0	11.2	10.6	9.0	8.2	7.8	7.8	8.3	9.1	10.1	10.4	9.5	
N.C.-----Charlotte-----	19	8.0	8.4	8.9	9.0	7.5	6.9	6.6	6.5	7.0	7.1	7.3	7.2	7.5	
N. Dak.-----Bismarck-----	29	10.2	10.3	11.5	12.8	12.6	11.4	10.8	10.0	10.6	10.3	10.7	9.8	10.8	
Ohio-----Cincinnati ¹² -----	43	8.3	8.4	9.0	8.4	6.7	6.4	5.2	5.1	5.4	6.1	7.7	7.9	7.1	
Ohio-----Cleveland-----	27	12.4	12.5	12.7	12.1	10.6	9.5	8.8	8.5	9.2	10.2	12.4	12.5	10.9	
Ohio-----Columbus-----	19	10.0	10.2	10.6	10.1	8.5	7.2	6.4	6.2	6.6	7.5	9.5	9.6	8.5	
Oklahoma-----Oklahoma City-----	20	14.0	14.1	15.7	15.5	13.8	13.2	11.6	11.3	11.8	12.6	12.8	13.2	13.8	
Oreg.-----Portland-----	20	10.0	8.8	8.5	7.2	6.8	6.8	7.5	7.0	6.2	6.5	8.3	9.6	7.8	
Pa.-----Philadelphia-----	28	10.3	11.0	11.4	11.0	9.7	8.7	8.1	7.8	8.3	8.8	9.6	10.0	9.6	
P.R.-----Providence-----	16	10.7	11.0	11.1	10.8	9.4	8.1	7.5	7.4	7.7	8.5	10.1	10.6	9.4	
S.C.-----Columbia-----	15	11.8	11.8	12.4	12.8	11.4	10.4	9.8	9.8	10.0	10.1	10.8	11.1	11.0	
S. Dak.-----Sioux Falls-----	20	10.8	10.9	12.5	13.3	12.1	10.7	9.6	9.6	10.3	10.8	11.7	10.8	11.1	
Tenn.-----Memphis-----	20	10.7	10.8	11.4	11.0	9.1	8.1	7.7	7.1	7.7	7.8	9.4	10.0	9.2	
Tenn.-----Nashville-----	27	9.0	9.2	9.9	9.4	7.5	6.7	6.2	5.9	6.2	6.3	8.2	8.6	7.8	
Tex.-----Dallas-----	28	10.5	11.2	12.8	13.2	12.3	12.0	10.1	9.7	9.4	9.3	10.2	10.4	10.9	
Tex.-----El Paso-----	26	9.5	10.5	12.3	12.4	11.5	10.5	9.2	8.8	8.6	8.4	9.0	9.0	10.0	
Utah-----Houston-----	20	11.9	12.1	12.7	13.0	11.7	10.2	8.8	8.4	9.1	9.8	11.2	11.3	10.8	
Utah-----Salt Lake City-----	39	7.4	8.1	9.1	9.4	9.3	9.2	9.3	9.5	8.9	8.4	7.7	7.3	8.6	
Vt.-----Burlington-----	25	9.8	9.6	9.4	9.5	9.1	8.3	7.9	7.6	8.2	8.8	9.6	9.9	9.6	
Va.-----Norfolk-----	20	11.7	12.0	12.5	11.9	10.2	9.4	8.7	8.8	9.7	10.4	10.8	10.9	10.6	
Va.-----Richmond-----	20	8.1	8.6	9.1	9.0	7.9	7.3	6.9	6.9	6.6	7.0	7.5	7.7	7.7	
Wash.-----Seattle-Tacoma-----	20	10.4	10.4	10.6	10.2	9.5	9.2	8.7	8.3	8.5	9.3	9.6	10.4	9.6	
Wash.-----Spokane-----	21	8.3	8.8	9.3	9.4	8.5	8.4	7.9	7.7	7.7	7.9	8.6	8.4	8.4	
W. Va.-----Charleston-----	21	7.7	8.0	8.8	8.6	6.6	6.6	5.2	4.6	4.9	5.4	7.0	7.2	6.6	
Wis.-----Milwaukee-----	28	12.9	12.9	13.4	13.8	12.3	10.4	9.5	9.5	10.7	11.6	13.0	12.7	11.8	
Wyo.-----Cheyenne-----	33	14.7	14.0	14.6	14.1	12.3	11.3	10.0	10.1	10.8	11.8	13.7	14.6	12.8	
P.R.-----San Juan-----	13	8.7	9.1	9.4	9.1	8.6	8.7	9.7	8.9	7.4	6.5	7.3	8.2	8.5	

¹ City office data.

¹² 1965 data.

No. 283. NORMAL MONTHLY AND ANNUAL DEGREE DAYS, 65° BASE—SELECTED CITIES

[Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960. For definition of "degree day," see text, p. 164.]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. Mobile	415	300	211	42	—	—	—	—	—	22	213	357	1,560
Alaska Juneau	1,237	1,070	1,073	810	601	381	301	398	483	725	921	1,135	9,075
Ariz. Phoenix	474	328	217	75	—	—	—	—	—	22	284	415	1,765
Ark. Little Rock	756	577	434	126	9	—	—	—	9	127	465	716	3,219
Calif. Los Angeles	347	277	264	177	121	54	19	16	36	62	159	267	1,799
Sacramento	614	442	380	216	102	6	—	—	12	81	303	577	2,773
San Francisco	508	395	303	270	214	123	81	78	60	143	306	462	3,012
Colo. Denver	1,132	938	887	558	288	66	6	9	117	428	819	1,035	6,283
Conn. Hartford	1,209	1,061	899	495	177	24	—	—	6	99	372	711	1,119
Del. Wilmington	980	874	735	387	112	6	—	—	51	270	588	927	4,930
D.C. Washington	871	762	626	288	74	—	—	—	33	217	519	834	4,224
Fla. Jacksonville	332	246	174	21	—	—	—	—	—	12	144	310	1,239
Miami	74	56	19	—	—	—	—	—	—	—	—	65	214
Ga. Atlanta	639	529	437	168	25	—	—	—	18	127	414	626	2,983
Hawaii Honolulu	—	—	—	—	—	—	—	—	—	—	—	—	—
Idaho Boise	1,113	854	722	438	245	81	—	—	132	415	792	1,017	5,809
Ill. Chicago	1,209	1,044	890	480	211	48	—	—	81	326	753	1,113	6,155
Ind. Peoria	1,218	1,028	949	426	183	33	—	—	87	326	759	1,113	6,025
Iowa Des Moines	1,113	949	809	432	177	39	—	—	90	316	723	1,051	5,609
Kans. Wichita	1,308	1,165	967	489	211	39	—	—	99	363	837	1,231	6,808
Ky. Louisville	930	804	645	270	87	6	—	—	33	229	618	905	4,620
La. New Orleans	303	258	192	39	—	—	—	—	54	248	608	890	4,060
Maine Portland	1,830	1,182	1,042	675	372	111	12	53	195	508	807	1,215	7,511
Md. Baltimore	936	820	670	327	90	—	—	—	48	264	585	905	4,654
Mass. Boston	1,088	972	846	513	208	36	—	9	60	316	608	983	5,034
Mich. Detroit	1,181	1,058	936	522	220	42	—	—	87	360	738	1,088	6,232
Minn. Sault Ste. Marie	1,525	1,380	1,277	810	477	201	96	105	279	580	951	1,367	9,048
Duluth	1,745	1,518	1,355	840	490	198	71	109	330	632	1,131	1,581	10,000
Minneapolis-St. Paul	1,631	1,380	1,166	621	288	81	22	31	189	505	1,014	1,454	8,382
Miss. Jackson	547	419	308	78	—	—	—	—	59	302	490	2,203	—
Mo. Kansas City	1,032	818	682	294	109	—	—	—	39	220	612	905	4,711
St. Louis	1,026	848	704	312	121	15	—	—	60	251	627	936	4,900
Mont. Great Falls	1,349	1,154	1,063	642	384	186	28	53	258	543	921	1,180	7,750
Nebr. Omaha	1,324	1,078	871	405	164	30	—	6	90	326	783	1,141	6,218
Nev. Reno	1,078	823	729	510	357	189	43	—	87	204	490	801	1,026
N.H. Concord	1,358	1,184	1,032	636	298	75	6	50	177	505	822	1,240	7,383
N.J. Atlantic City	936	848	741	420	133	15	—	—	30	251	549	880	4,812
N. Mex. Albuquerque	930	703	595	288	81	—	—	—	12	229	642	868	4,348
N.Y. Albany	1,811	1,156	922	564	230	45	—	19	138	440	777	1,194	6,875
Buffalo	1,256	1,145	1,039	615	329	78	19	37	141	440	777	1,156	7,082
New York	936	886	760	408	118	9	—	—	30	233	540	902	4,871
N.C. Charlotte	691	582	481	166	22	—	—	—	6	124	438	691	3,191
Raleigh	725	616	487	180	34	—	—	—	21	164	450	716	3,393
N. Dak. Bismarck	1,708	1,442	1,203	645	329	117	34	28	222	577	1,083	1,463	8,851
Ohio Cincinnati	970	837	701	336	118	9	—	—	54	248	612	921	4,806
Cleveland	1,159	1,047	918	552	260	66	9	25	105	384	738	1,088	6,351
Columbus	1,088	940	809	426	171	27	—	6	84	347	714	1,039	5,660
Oklahoma City	868	684	527	189	34	—	—	—	15	164	498	766	3,725
Oreg. Portland	825	644	586	306	245	105	25	28	114	335	597	735	4,035
Pa. Philadelphia	1,014	890	744	390	115	12	—	—	60	291	621	904	5,101
Pittsburgh	1,119	1,002	874	480	195	39	—	9	105	375	726	1,063	5,987
R.I. Providence	1,110	988	888	534	236	51	—	16	98	372	660	1,023	5,954
S. C. Columbia	670	470	357	81	—	—	—	—	84	345	577	2,484	—
S. Dak. Sioux Falls	1,544	1,285	1,082	573	270	78	19	25	168	462	972	1,361	7,839
Tenn. Memphis	729	585	456	147	22	—	—	—	18	130	447	698	3,282
Nashville	778	644	512	189	40	—	—	—	30	158	495	732	3,578
Tex. Dallas	601	440	319	90	6	—	—	—	—	62	321	524	2,363
El Paso	685	445	319	105	—	—	—	—	84	414	649	2,700	—
Houston	384	288	192	30	—	—	—	—	6	183	307	1,396	—
Utah Salt Lake City	1,172	910	703	459	233	84	—	—	81	419	849	1,082	6,082
Vt. Burlington	1,513	1,333	1,187	714	353	90	28	65	207	539	891	1,349	8,269
Va. Norfolk	738	655	533	216	53	—	—	—	136	408	608	696	3,421
Richmond	815	703	546	219	53	—	—	—	36	214	495	784	3,865
Wash. Seattle-Tacoma	828	678	657	474	295	159	56	62	182	391	633	750	5,145
Spokane	1,281	980	834	531	288	135	9	25	108	493	679	1,082	6,655
W. Va. Charleston	880	770	648	300	96	9	—	—	63	234	591	865	4,476
Wis. Milwaukee	1,376	1,193	1,054	642	872	135	43	47	174	471	876	1,252	7,635
Wyo. Cheyenne	1,228	1,056	1,011	672	381	102	19	31	210	543	924	1,101	7,278
P.R. San Juan	—	—	—	—	—	—	—	—	—	—	—	—	—

- Represents zero. ¹ City office data.

Source: Dept. of Commerce, Environmental Science Services Administration; *Local Climatological Data*. Monthly with annual summary.

Section 7

Public Lands, Parks, Recreation, and Travel

Statistics in this section relate to the Federal public domain and other federally owned and leased real property, Indian lands, national parks and forests, State and municipal parks, domestic and foreign travel, and other forms of recreation.

Data on public lands are published primarily by the Department of the Interior, Bureau of Land Management, in *Public Land Statistics*. Data on federally owned land and real property are collected by the General Services Administration and presented in its annual *Inventory Report on Real Property Owned by the United States Throughout the World*. The Economic Research Service of the Department of Agriculture also issues statistics on land use and land ownership.

The Department of the Interior issues various reports relating to recreation, as follows: The National Park Service publishes information on national parks in its monthly report, *Public Use of the National Parks*, and its semiannual report, *Areas Administered by the National Park Service*, which also covers sites eligible for registry as natural or national historic landmarks and nonfederally owned national historic sites. The Bureau of Outdoor Recreation administers a land and water conservation fund which has provided funds to States, counties, and cities for outdoor recreation purposes and for acquisition of new recreational lands and waters. It is responsible for maintaining a continuing inventory of public and private recreation resources and for preparing a nationwide outdoor recreation plan that will provide data on the extent and availability of such resources in relation to public needs. The first plan is due for publication in 1970 and is scheduled to be updated at 5-year intervals. The Fish and Wildlife Service compiles and releases data on sport fishing and hunting and on number and acreage of national wildlife refuges and fish hatcheries. Data for municipal parks and playgrounds, as well as for other outdoor recreational activities, are compiled by the National Recreation and Park Association, Washington, D.C., which issues its *Recreation and Park Yearbook* at 5-year intervals. The Department of Agriculture's Forest Service, in its *Annual Report of the Chief*, issues data on recreational uses of the national forests.

Figures on expenditures for recreation and on domestic and foreign travel, compiled by the Department of Commerce's Office of Business Economics, appear periodically in the monthly *Survey of Current Business*. Domestic travel data by volume and type were collected by the Bureau of the Census in its 1963 Census of Transportation and published in the *Passenger Transportation Survey*, Vol. I, *National Travel and Home-to-Work Travel*. Comparable data (excluding home-to-work travel) from the 1967 Census of Transportation, first issued in an advance report, are scheduled for final publication in *National Travel Survey*, Vol. I. Foreign travel data based on analysis of passports (see table 312, p. 207 of this book) are published in the annual *Summary of Passport Statistics*, issued by the Department of State's Passport Office.

Few statistical series are available on activities of a cultural nature—art, music, theater, etc.—and those are generally based on infrequent and incomplete studies by private agencies. The available series in this field are presented in tables 308 and 310.

Other sources of data relating to individual sports and recreational activities appear in footnotes to table 309 and in the Guide to Sources in Appendix III of this book.

Public-domain and acquired lands.—The U.S. Government acquired sovereignty over its present land area through a series of international agreements and treaties. At the time of acquisition of sovereignty over the areas involved (now 2,271 million acres) title to about 463 million acres rested in individual States and their political subdivisions or in private owners, and was not relinquished to the U.S. Government.

Title to the remaining land area passed to the U.S. Government. This area, except for lands in the District of Columbia, is known as the original public domain.

Public-domain lands or public lands are those federally owned lands to which the public land laws apply. In general, these lands include that portion of the original public domain not disposed of under the public land laws, and certain other lands declared by the Congress specifically to be public lands. In addition to the original public domain, the U.S. Government has from time to time acquired, by purchase, condemnation, and gift, tracts of land needed for public purposes. Such lands are referred to as acquired lands.

Indian lands.—Indian lands are the private landholdings of individual Indians or Indian tribes that are subject to special restrictive provisions of Federal law administered by the Bureau of Indian Affairs. They have been set aside for Indian use by treaties, congressional acts, and executive orders. Although most of these lands are in reservations for specific tribes, there are groups of scattered off-reservation allotments in individual ownership and other small tracts of land occupied by Indian groups. Recreational facilities are increasingly being located and operated by Indians on Indian reservations.

Entries, selections, patents, and certifications.—The data on entries, selections, patents, and certifications refer to transactions which involve the disposal, under the public land laws (including the homestead laws), of Federal public lands to non-Federal owners. In general, original entries and selections are applications to secure title to public lands which have been accepted as properly filed. Some types of applications, however, are not reported until the final certificate is issued. Applications become final entries (perfected entries) upon issuance of a final certificate to the applicant after he has complied fully with the requirements of the laws relating to his application. A final certificate passes equitable title to the land to the applicant. Patents are instruments which pass legal title to the land to the applicant. Certifications are issued in lieu of patents in connection with certain State selections.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface

No. 284. AREA AND ACQUISITION OF THE PUBLIC DOMAIN: 1781 TO 1969

[In thousands of acres. Areas of acquisitions are as computed in 1912; hence do not agree with figures in square miles shown in table 282, which includes later adjustments and reflects subsequent remeasurement. See also *Historical Statistics, Colonial Times to 1957*, series J 3-9.]

YEAR	Estimated area ¹	YEAR	Estimated area ¹	YEAR AND ACQUISITION	Total	Land	Inland water
1802-----	200,000	1960-----	772,000	Aggregate-----	1,837,763	1,807,682	30,081
1850-----	1,200,000	1961-----	768,000				
1880-----	900,000	1962-----	771,000	1781-1802 (State Cessions)-----	236,826	233,416	3,410
		1963-----	770,000	1803, Louisiana Purchase ² -----	529,912	523,446	6,465
1912-----	600,000	1964-----	771,000	1819, Cession from Spain ³ -----	46,145	43,343	3,202
1946-----	413,000			Red River Basin ⁴ -----	20,602	29,087	535
1950-----	412,000	1965-----	768,000	1846, Oregon Compromise-----	183,386	180,644	2,742
		1966-----	785,000	1848, Mexican Cession ² -----	338,691	334,479	4,202
1956-----	411,000	1967-----	780,000	1850, Purchase from Texas-----	78,927	78,843	84
1958-----	410,000	1968-----	756,000	1853, Gadsden Purchase-----	18,989	18,982	27
1959-----	771,000	1969-----	763,000	1867, Alaska Purchase-----	375,296	366,482	9,814

¹ Comprises original public domain plus acquired lands. Estimated from imperfect data available for indicated years. Prior to 1959, excludes Alaska. Source, beginning 1958: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

² Data for Louisiana Purchase exclude areas eliminated by Treaty of 1819 with Spain. Such areas are included in figures for Mexican Cession.

³ Includes 33,920 acres subsequently recognized as part of State of Texas which is not a public-domain State.

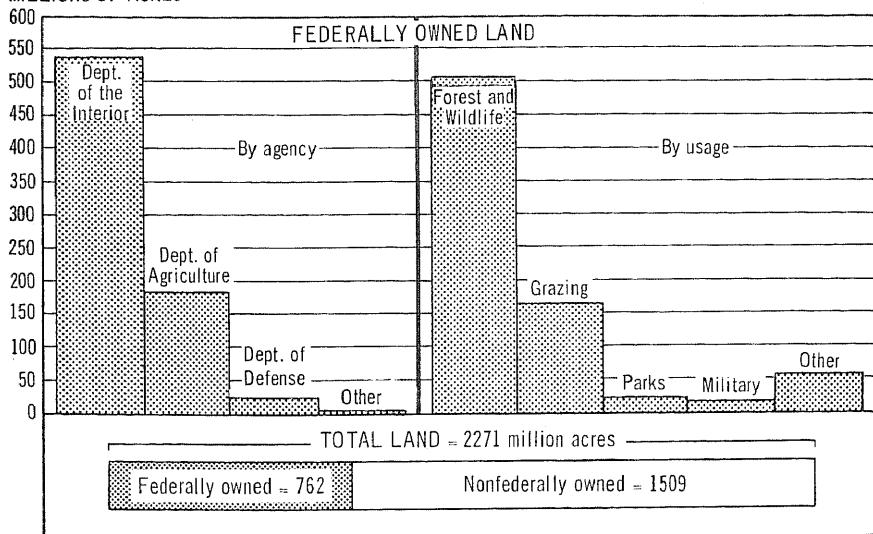
⁴ Represents drainage basin of Red River of the North, south of 49th parallel. Authorities differ as to method and exact date of its acquisition. Some hold it as part of Louisiana Purchase; others maintain it was acquired from Great Britain.

Source: Dept. of the Interior, Estimated area, Bureau of Land Management, except as noted; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S., 1922*.

FIG. XII. LAND OWNED BY THE FEDERAL GOVERNMENT: 1969

[See tables 285, 287, and 288]

MILLIONS OF ACRES

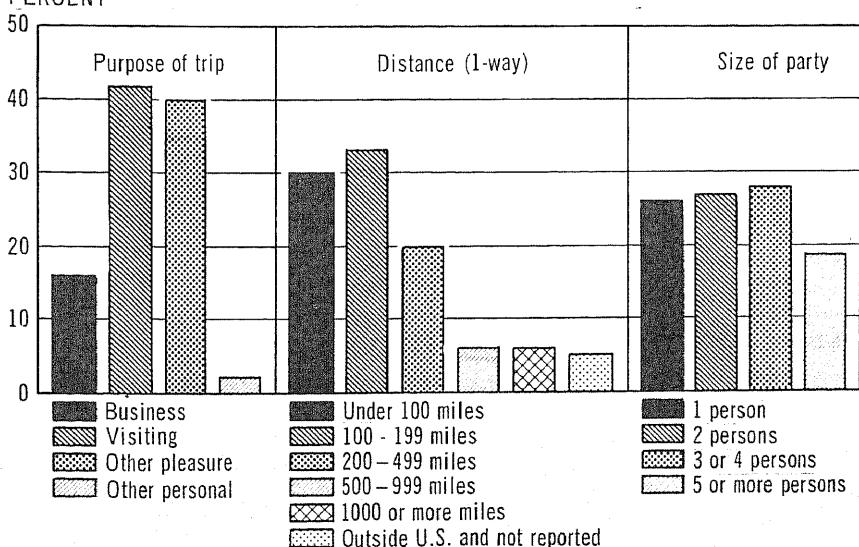


Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data from General Services Administration.

FIG. XIII. NATIONAL TRAVEL—CHARACTERISTICS OF TRAVELERS: 1967

[See table 311]

PERCENT



Source: Dept. of Commerce, Bureau of the Census.

Public Lands, Parks, Recreation, and Travel

**No. 285. TOTAL LAND AND FEDERALLY OWNED LAND AND BUILDINGS, 1955 TO 1969,
AND BY STATES, 1969**

[Land in thousands of acres; cost in millions of dollars. As of June 30]

YEAR AND STATE	Total	Not owned by Federal Govern- ment	LAND				FEDERALLY OWNED BUILDINGS		
			Owned by Federal Government		Public domain	Acquired by other methods	Number	Cost	
			Total ¹	Acres					
1955 ³	1,903,825	1,495,929	407,896	21.4	357,210	50,686	2,369	384,916	14,475
1960	2,273,407	1,601,894	771,512	33.9	720,004	51,508	2,956	405,443	19,916
1965	2,271,343	1,505,846	765,797	33.7	712,525	53,272	4,128	426,863	24,808
1966	2,271,343	1,506,581	764,762	33.7	710,821	53,941	4,303	423,634	25,529
1967	2,271,343	1,510,979	760,364	33.5	706,354	54,010	4,665	421,493	26,342
1968	2,271,343	1,515,998	755,345	33.3	700,855	54,490	4,881	417,559	26,836
1969									
Total	2,271,343	1,508,823	762,514	33.6	707,721	54,793	5,201	412,824	27,796
Ala.	32,678	31,577	1,101	3.4	26	1,075	65	8,054	547
Alaska	365,482	10,765	354,717	97.1	354,700	17	4	8,245	1,032
Ariz.	72,688	40,042	32,846	44.9	32,343	303	10	10,577	382
Ark.	33,699	30,437	3,163	9.4	1,068	2,095	128	4,289	162
Calif.	100,207	55,318	44,889	44.8	42,561	2,328	492	59,991	3,800
Colo.	66,486	42,290	24,196	36.4	23,153	1,043	77	7,147	648
Conn.	3,135	3,126	9	0.3	-	9	38	2,057	164
Del.	1,266	1,227	39	3.1	-	39	7	895	80
D.C.	38	28	11	28.2	-	11	164	1,890	833
Fla.	34,721	31,311	3,410	9.8	371	3,039	128	13,877	1,080
Ga.	37,295	35,218	2,077	5.6	-	2,077	115	13,727	669
Hawaii	4,106	3,709	397	9.7	-	397	27	11,424	530
Idaho	52,933	19,107	33,827	63.9	33,050	777	40	4,440	209
Ill.	35,795	35,254	542	1.5	1	541	114	7,272	814
Ind.	23,158	22,727	431	1.9	(2)	431	91	6,020	381
Iowa	35,860	35,643	217	0.6	(2)	217	44	1,928	137
Kans.	52,511	51,837	674	1.3	27	647	212	7,217	383
Ky.	25,512	24,326	1,187	4.7	-	1,187	278	7,132	500
La.	28,868	27,827	1,041	3.6	20	1,021	57	5,198	338
Maine	19,848	19,717	130	0.7	-	130	8	3,580	230
Md.	6,319	6,125	104	3.1	-	194	66	12,038	1,227
Mass.	5,035	4,959	76	1.5	-	76	94	6,227	602
Mich.	36,492	33,145	3,347	9.2	202	3,065	37	6,905	411
Minn.	51,206	47,900	3,305	6.5	1,287	2,018	29	2,367	188
Miss.	30,223	28,650	1,573	5.2	6	1,567	77	5,109	282
Mo.	44,248	42,321	1,927	4.4	2	1,925	116	6,492	209
Mont.	93,271	65,646	27,625	29.6	25,183	2,467	45	6,206	192
Neb.	49,032	48,313	718	1.5	260	458	61	3,322	-
Nev.	70,264	9,380	60,885	86.7	60,728	157	7	5,148	193
N.H.	5,769	5,063	706	12.2	-	706	24	858	72
N.J.	4,813	4,698	116	2.4	-	116	51	8,034	615
N. Mex.	77,766	51,419	26,347	33.9	24,777	1,570	30	11,155	581
N.Y.	30,681	30,446	235	0.8	-	235	160	10,613	1,203
N.C.	31,403	29,460	1,942	6.2	-	1,942	74	10,164	542
N. Dak.	44,452	42,315	2,137	4.8	213	1,924	105	4,261	231
Ohio.	26,222	25,949	273	1.0	(2)	273	133	5,107	1,048
Okl.	44,088	42,652	1,436	3.8	150	1,286	303	7,036	350
Oreg.	61,599	29,415	32,184	52.2	30,977	1,207	249	5,690	146
Pa.	28,805	28,196	609	2.1	-	609	208	6,230	671
R.I.	677	669	8	1.1	-	8	7	2,627	165
S.C.	19,374	18,243	1,131	5.8	-	1,131	76	9,109	672
S. Dak.	48,882	45,470	3,412	7.0	1,593	1,819	138	3,286	172
Tenn.	26,728	25,007	1,721	6.4	-	1,721	282	6,049	839
Tex.	168,218	165,177	3,041	1.8	-	3,041	257	27,392	1,552
Utah	62,697	17,859	34,838	66.1	34,323	515	26	4,616	274
Vt.	5,987	5,674	262	4.4	-	262	11	352	21
Va.	25,496	23,286	2,210	8.7	-	2,210	129	19,542	1,330
Wash.	42,694	30,123	12,571	29.4	11,093	1,478	160	17,326	832
W. Va.	15,411	14,397	1,014	6.6	-	1,014	76	1,276	86
Wis.	35,011	33,218	1,793	5.1	9	1,784	19	4,059	185
Wyo.	62,343	32,168	30,174	48.4	29,583	641	49	3,229	74

- Represents zero. Z Less than 500. ¹ Excludes trust properties.

² Excludes value of public-domain lands for which there are no costs.

³ Excludes Alaska and Hawaii.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

Ownership of Land—Federal Property

193

No. 286. OWNERSHIP OF LAND, BY CLASS: 1954, 1959, AND 1964

[Land in millions of acres. See also *Historical Statistics, Colonial Times to 1957*, series J 65 and J 75]

CLASSES	1954		1959		1964	
	Land	Percent	Land	Percent	Land	Percent
Total.....	2,273	100.0	2,271	100.0	2,266	100.0
Private land ¹	1,335	58.7	1,332	58.7	1,328	58.6
Indian land ²	53	2.3	53	2.3	50	2.2
Public land.....	885	39.0	886	39.0	888	39.2
Federal land ³	766	33.7	765	33.7	766	33.8
State land ⁴	101	4.5	103	4.5	103	4.6
County and municipal land.....	18	0.8	18	0.8	19	0.8

¹ Land owned by individuals, partnerships, and corporations.

² Trust land held by tribes and individual owners exclusive of federally owned land used by Indians.

³ Gross acreage of Federal holdings including highway and road rights-of-way in Federal areas.

⁴ Includes the major part of highway and road rights-of-way through predominantly private land areas.

Source: Dept. of Agriculture, Economic Research Service; *Major Uses of Land and Water in the United States*, November 1968, and unpublished data.

No. 287. FEDERAL LAND, BUILDINGS, AND COST, BY AGENCY: 1960 AND 1969

[As of June 30]

LOCATION AND AGENCY	LAND (1,000 acres)		NUMBER OF BUILDINGS		FLOOR AREA OF BUILDINGS (1,000 sq. ft.)		TOTAL COST— LAND, BUILDINGS, STRUCTURES, AND FACILITIES (mil. dol.)	
	1960	1969	1960	1969	1960	1969	1960	1969
	Total.....	772,048	763,042	1,412,545	1,419,731	1,2,445,162	1,2,530,572	52,618
Outside U.S.....	536	527	1,7,102	1,6,907	1,30,240	1,34,548	6,363	7,072
Inside U.S.....	771,512	762,515	405,443	412,324	2,414,922	2,496,024	46,255	68,869
Agriculture.....	186,020	187,033	23,147	20,754	20,207	27,126	1,059	2,394
Atomic Energy Commission.....	2,088	2,146	7,026	5,898	73,115	76,879	3,141	3,849
Commerce.....	8	7	902	708	10,149	4,938	175	110
Defense.....	29,714	30,670	820,097	318,617	1,928,832	1,855,932	31,298	42,653
Army.....	8,520	11,349	141,639	129,420	790,054	721,167	8,861	10,240
Air Force.....	12,464	8,554	93,353	102,652	564,351	577,520	9,562	13,473
Navy.....	3,548	3,621	79,909	81,028	563,129	546,861	8,073	9,366
Corps of Engineers, civil functions.....	5,173	7,146	5,196	6,517	11,298	10,384	4,802	9,574
General Services Administration.....	18	21	2,175	3,502	120,571	212,166	1,295	3,051
Interior.....	552,613	541,361	30,407	36,189	40,903	56,932	4,557	7,468
National Aeronautics and Space Administration.....	5	144	309	2,503	5,502	31,137	323	2,539
Post Office.....	2	3	3,063	2,588	46,603	47,600	480	610
Tenn. Valley Authority.....	696	827	717	779	2,794	3,261	1,753	2,643
Transportation ¹	113	162	1,742	10,170	4,244	23,696	187	1,092
Veterans Administration.....	29	21	7,585	5,549	114,719	111,815	1,195	1,660
Other.....	206	120	8,293	4,574	47,223	44,533	783	800

¹ Excludes buildings and floor area pertaining to Dept. of Defense military functions outside the United States.

² 1960 data are for Federal Aviation Administration.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

No. 288. FEDERAL LAND, BY AGENCY AND PREDOMINANT USAGE: 1969

[In thousands of acres, except as indicated. As of June 30. Covers land in United States only]

AGENCY	Forest and wildlife	Grazing	Mili- tary, except air- fields	Parks and historic sites	Recla- mation and irriga- tion	Flood control and naviga- tion	Power devel- opment and distribu- tion	Air- fields	Other
Total cost of land..... mil. dol.	328	26	265	359	299	2,447	240	248	1,001
Total acreage.....	504,078	164,256	17,310	24,813	7,523	7,324	2,064	2,076	33,570
Agriculture.....	167,219	19,072	-	(z)	-	-	-	-	742
Atomic Energy Commission.....	-	-	-	-	-	-	-	-	2,146
Defense.....	-	-	17,300	7	13	6,425	697	2,054	4,165
Army.....	-	-	7,858	-	-	-	-	67	3,424
Air Force.....	-	-	7,084	-	-	-	-	1,311	158
Navy.....	-	-	2,367	-	-	-	-	676	570
Corps of Engineers, civil functions.....	-	-	-	7	13	6,425	697	-	4
Interior.....	336,859	145,184	-	24,268	7,510	26	1,333	-	26,181
Tennessee Valley Authority.....	-	-	-	38	-	746	34	-	9
Other.....	-	-	1	-	(z)	127	-	22	327

- Represents zero.

z Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

No. 289. FEDERAL LAND AND BUILDINGS OWNED AND LEASED, BY LOCATION AND FUNCTION: 1969

[As of June 30]

LOCATION AND FUNCTION	LAND (1,000 acres)			FLOOR AREA OF BUILDINGS (1,000 sq. ft.)			LEASED PROPERTY	
	Total	Feder- ally owned	Leased	Total	Feder- ally owned	Leased	Num- ber of leases	Annual rental (\$1,000)
Total, worldwide.....	764,791	763,042	1,749	12,703,591	12,530,572	173,019	167,165	417,174
Civil agencies.....	732,454	732,277	177	830,845	874,610	165,235	55,749	355,532
Defense:								
Military functions.....	25,182	23,619	1,563	1,863,079	1,845,548	7,531	11,008	61,014
Civil functions.....	7,155	7,146	9	10,667	10,414	253	408	627
United States.....	764,152	762,514	1,638	2,648,755	2,496,024	152,731	59,224	331,336
Civil agencies.....	732,012	731,844	168	785,039	640,092	144,947	47,808	310,839
Defense:								
Military functions.....	24,985	23,524	1,461	1,853,079	1,845,548	7,531	11,008	19,869
Civil functions.....	7,155	7,146	9	10,637	10,384	253	408	627
Outlying areas of United States.....	525	523	2	16,023	15,235	1,788	1,297	1,854
Civil agencies.....	429	428	1	15,993	15,205	788	297	1,839
Defense:								
Military functions.....	98	95	1	(NA)	(NA)	(NA)	(NA)	15
Civil functions.....	-	-	-	30	30	-	-	-
Foreign countries.....	114	5	109	138,813	19,313	19,500	17,644	83,984
Civil agencies.....	13	5	8	38,813	19,313	19,500	7,644	42,854
Defense: Military functions.....	101	-	101	(NA)	(NA)	(NA)	(NA)	41,130

- Represents zero. NA Not available.

¹ Excludes floor area pertaining to Dept. of Defense military functions outside the United States.Source: General Services Administration; annual reports, *Inventory Report on Real Property Leased to the United States Throughout the World* and *Inventory Report on Real Property Owned by the United States Throughout the World*.

Public Lands

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No. 290. PUBLIC LANDS—DISPOSAL TRANSACTIONS AND CASH RECEIPTS: 1901 TO 1969

[For years ending June 30. Period figures are totals, not averages. See also *Historical Statistics, Colonial Times to 1957*, series J 11-18]

PERIOD OR YEAR	ALL ENTRIES, SELECTIONS, PATENTS, ETC. ¹			HOMESTEAD ENTRIES, EXCEPT ON CEDED INDIAN LANDS			CASH RECEIPTS		
	All original entries and selections ²	All final entries	Patents and certifications	Original entries		Final entries ³	Total ⁴	Mineral leases ⁵	Sales of timber
				Number	Acreage				
1901-1910	1,000 196,841	1,000 (NA)	1,000 (NA)			1,000 831,841	1,000 130,737	94	
1911-1920	156,402 6,9,778	13,327	554,026	123,828	74,818	67	(x)	76	1
1921-1930	61,231 19,269	45,513 14,243	66,358 44,554	172,508 15,925	53,400 13,017	40,391 104	104	76	8
1931-1940						58	58	45	4
1941-1945	404	1,057	3,350	1,233	159	764	58	41	7
1946-1950	406	436	1,726	2,456	306	157	141	105	17
1951-1955	1,101	1,029	2,081	2,259	280	220	497	375	70
1956-1960	2,075	1,353	3,547	3,890	501	222	902	675	139
1961-1965	13,643	2,054	4,186	2,145	259	118	1,297	967	193
1966	2,403	220	769	182	22	12	234	161	45
1967	1,787	214	3,407	115	16	11	434	356	48
1968	474	942	1,622	51	7	22	822	748	47
1969	1,171	405	906	33	4	7	1,159	1,090	56
	319	264	821	26	4	8	651	567	70

NA Not available. X Not applicable. ¹ Includes homesteads.

² Includes some classes of final entries and patents prior to 1911. ³ Excludes commuted homesteads.

⁴ Comprises Bureau of Land Management receipts from such sources as following: Sales of public and ceded Indian lands; fees and commissions; mineral rentals, royalties, and bonuses; sales of timber; grazing fees and rentals; and land rentals. For periods prior to 1901, receipts were \$340,821,000.

⁵ Act of Feb. 25, 1920. Includes Outer Continental Shelf leases beginning 1955. * 1920 only.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 291. PUBLIC LANDS—LEASES, PERMITS, AND LICENSES, BY CLASS: 1955 TO 1969

[Acres in thousands. As of June 30, except as noted. Excludes leases on acquired, submerged, and military lands. See *Historical Statistics, Colonial Times to 1957*, series J 32-33, for oil and gas leases]

CLASS	1955		1960		1965		1969	
	Number	Acres	Number	Acres	Number	Acres	Number	Acres
Mineral class	96,898	72,902	142,114	118,157	101,863	66,267	99,419	64,301
Leases	96,337	71,983	140,057	114,136	101,086	64,955	98,358	63,053
Oil and gas ¹	95,907	71,696	139,534	113,667	100,339	64,148	97,374	61,781
Coal	307	136	294	199	379	374	520	728
Other	123	152	220	270	388	433	450	544
Permits	525	918	2,035	4,020	763	1,311	1,061	1,248
Sodium	119	223	986	1,990	29	53	38	64
Potash	283	530	825	1,649	334	669	122	236
Other	123	164	224	373	400	590	901	948
Licenses	36	2	22	1	14	1	5	(z)
Other classes ²	53,438	20,920	(NA)	19,529	(NA)	19,091	11,111	19,971
Leases	52,364	19,772	19,010	18,615	10,246	18,221	9,943	18,722
Grazing ³	11,199	19,404	9,911	18,532	8,912	18,057	9,053	18,561
Recreation	12	2	61	7	271	113	415	117
Small tract	41,092	187	8,982	33	937	3	193	1
Other	61	179	56	43	126	48	282	43
Permits ⁴	1,074	1,147	(NA)	914	(NA)	870	1,168	1,249

NA Not available. Z Less than 500 acres.

¹ Includes naval petroleum reserve: 17 leases, 9,227 acres.

² Excludes grazing licenses and permits within grazing districts.

³ Beginning 1960, as of Dec. 31.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

**No. 292. PUBLIC LANDS—HOMESTEAD ENTRIES, 1941 TO 1969, AND VACANT LANDS,
1940 TO 1969, BY STATES**

(Homestead entries for years ending June 30; vacant lands as of June 30. Excludes States with less than 500 acres in years specified. See text, p. 189. Vacant public lands are those which are unappropriated and unreserved. The former represent lands not covered by an entry; the latter, lands not reserved for some public purpose, i.e., available for entry or selection under appropriate laws. Data cover vacant public lands outside Alaska withdrawn for classification in furtherance of Taylor Grazing Act and for conservation and development of natural resources. See *Historical Statistics, Colonial Times to 1967*, series J 10, for vacant lands excluding Alaska and J 17-18 for homestead entries)

STATE AND ITEM	HOMESTEAD ENTRIES ¹ (acres)				VACANT LANDS ² (1,000 acres)			
	1941-1950, total	1951-1960, total	1961-1968, total	1969	1940	1950	1960	1969
Total.....	464,406	789,998	286,551	3,531	502,826	3 440,408	437,879	417,177
Alaska.....	231,318	571,963	275,548	2,571	323,000	270,000	270,200	257,133
Arizona.....	16,333	9,408	478	800	13,866	12,545	12,442	11,901
Arkansas.....	-	160	40	-	130	134	3	1
California.....	27,455	3,892	-	-	16,968	16,306	15,673	14,593
Colorado.....	18,036	14,452	160	-	7,937	8,070	8,090	7,219
Florida.....	-	360	40	-	14	23	1	-
Idaho.....	31,846	96,014	3,014	-	11,870	10,858	11,652	11,613
Minnesota.....	-	-	-	-	238	93	58	23
Montana.....	18,515	1,623	-	-	6,460	6,773	6,385	6,145
Nevada.....	4,126	25,798	5,024	160	51,144	47,158	46,027	47,016
New Mexico.....	15,185	3,854	1,547	-	15,695	14,503	13,129	12,578
North Dakota.....	(1)	-	-	-	108	98	79	76
Oregon.....	5,271	1,298	-	-	12,774	13,298	13,153	13,336
South Dakota.....	(1)	-	-	-	279	290	272	276
Utah.....	45,631	53,599	280	-	25,734	23,033	24,097	20,880
Washington.....	2,755	832	280	-	577	487	365	298
Wyoming.....	32,771	2,533	103	-	15,907	16,615	16,198	13,087
Other States.....	-	-	37	-	112	126	55	18
Bureau of Land Management.....	4 15,354	4,212	-	-	(X)	(X)	(X)	(X)
Final entries.....	3 921,108	3 442,138	3 186,539	3 6,511	(X)	(X)	(X)	(X)

¹ Represents zero. ² Not applicable.

¹ Original entries, except as indicated. ² Includes acreage of public lands within grazing districts, as follows (in thousands): 1940, 131,926; 1950, 134,875; 1960, 141,645; 1969, 133,700. ³ Includes 1,000 acres for Missouri.

⁴ For States no longer having local offices, entries, if any, included with Bureau of Land Management.

⁵ Excludes commuted homesteads and ceded Indian lands.

**No. 293. PUBLIC AND INDIAN LAND—ENTRIES UNDER ALL ACTS, BY STATES:
1936 TO 1969**

[In acres. For years ending June 30. See text, pp. 189 and 190. See also *Historical Statistics, Colonial Times to 1967*, series J 13-15]

CLASS AND STATE	ORIGINAL ENTRIES							Final entries, 1969	Patents and certifi- cations, 1969
	1936- 1945, total	1946- 1955, total	1956- 1965, total	1965	1967	1968	1969		
Total.....	1,441,258	1,596,952	15,718,794	2,402,916	474,295	1,171,116	319,310	264,450	821,257
Public land.....	1,387,923	1,572,967	15,718,794	2,402,916	470,037	1,189,078	314,580	261,306	806,042
Indian land.....	53,334	23,984	-	-	4,258	2,038	4,730	3,144	15,215
All homesteads.....	871,146	618,728	760,702	22,173	7,442	3,984	3,531	7,817	7,817
Stock-raising.....	498,408	5,707	-	-	-	-	640	640	640
Other entries.....	570,112	978,223	14,958,092	2,380,743	466,863	1,167,132	315,770	256,633	813,440
Alaska.....	125,728	350,095	13,024,737	2,177,017	340,534	322,057	74,411	156,146	156,175
Arizona.....	106,031	95,646	312,160	16,927	87,079	774,097	183,767	3,422	235,820
California.....	299,057	171,669	65,790	2,867	546	1,375	152	6,056	19,293
Colorado.....	117,787	138,919	35,268	30	101	528	-	2,669	12,014
Idaho.....	79,061	252,110	323,658	24,733	23,799	22,065	-	19,235	23,160
Montana.....	105,548	3,326	5,140	340	-	-	-	10,233	33,049
Nevada.....	10,682	314,822	531,710	168,423	9,417	5,870	9,683	33,117	64,595
New Mexico.....	210,377	17,083	34,148	3,107	1,047	200	206	7,216	157,236
Oregon.....	59,014	24,421	22,444	180	8,198	59	-	3,817	29,682
Utah.....	126,780	148,369	236,912	490	581	31,630	12,301	1,749	39,536
Washington.....	4,093	5,854	141,276	430	160	224	-	437	4,767
Wyoming.....	147,904	65,928	65,110	8,372	2,775	9,009	4,061	14,932	31,572
Other States.....	49,195	8,710	16,440	-	58	3,093	34,720	5,421	14,358

¹ Represents zero.

Source of tables 292 and 293: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

Indian Land—National Forest

197

No. 294. LANDS UNDER JURISDICTION OF BUREAU OF INDIAN AFFAIRS—ACREAGE, BY STATES: 1900 TO 1969

[In thousands. Excludes States with less than 500 acres in years specified]

STATE	1900	1920	1940	1960 ¹	1969 ¹			
					Total	Indian		Govern- ment owned
						Trust allotted	Tribal	
Total	78,372	71,399	55,406	2 55,076	55,351	10,757	39,641	4,952
Alaska.....	(NA)	(NA)	(NA)	4,168	4,170	17	88	4,065
Arizona.....	15,151	18,653	19,225	21,515	19,741	259	19,391	90
California.....	406	517	667	558	537	76	461	(Z)
Colorado.....	484	469	667	752	755	5	750	(Z)
Florida.....	23	24	61	79	79	—	70	(Z)
Idaho.....	1,365	683	818	835	829	376	411	41
Iowa.....	3	3	3	4	4	—	4	—
Kansas.....	28	273	36	29	27	25	2	(Z)
Michigan.....	8	153	27	22	21	9	8	4
Minnesota.....	1,567	1,509	653	756	763	52	688	20
Mississippi ²	(X)	(X)	9	16	18	(Z)	17	(Z)
Montana.....	9,501	6,054	6,455	5,457	5,285	3,375	1,784	126
Nebraska.....	75	360	76	68	62	46	10	(Z)
Nevada.....	954	741	1,127	1,182	1,148	79	1,061	8
New Mexico.....	1,667	4,697	7,153	6,542	7,220	670	6,151	389
New York.....	88	88	(4)	(4)	(4)	(4)	(4)	(4)
North Carolina.....	98	63	57	56	57	—	56	(Z)
North Dakota.....	3,702	2,105	1,036	879	853	697	150	6
Oklahoma.....	26,397	19,552	2,844	1,855	1,458	1,387	62	28
Oregon.....	1,300	1,718	1,737	1,238	887	171	515	1
South Dakota.....	8,982	6,686	5,865	5,004	4,826	2,680	2,025	121
Utah.....	2,030	1,641	1,693	2,125	2,271	57	2,213	(Z)
Washington.....	2,334	2,719	2,740	2,591	2,465	593	1,872	(Z)
Wisconsin.....	381	590	445	422	188	83	66	30
Wyoming.....	1,810	2,102	2,013	1,890	1,887	109	1,776	1

[—] Represents zero. NA Not available. X Not applicable. Z Less than 500 acres.

¹ Taxable lands generally included. ² Includes 3,000 acres in South Carolina, not shown separately.

³ Land purchased in 1939.

⁴ Partial jurisdiction over Indian lands transferred to State of New York.

Source: Dept. of the Interior, Bureau of Indian Affairs; *Annual Report*, and unpublished data.

No. 295. NATIONAL FOREST RECREATION USE—SUMMARY: 1969

{Estimated. Represents recreational use of National Forest land and water which aggregates 12 person hours; may entail 1 person for 12 hours, 12 persons for 1 hour, or any equivalent combination of individual or group use, either continuous or intermittent}

PLACE WHERE USE OCCURRED	Visitor-days (1,000)	Percent	ACTIVITY	Visitor-days (1,000)	Percent
Sites and areas.....	162,838	100.0	Total.....	162,838	100.0
Developed sites.....	63,740	39.1	Camping.....	41,630	25.5
Observation sites.....	808	0.5	Picnicking.....	6,838	4.2
Playgrounds, parks, sports sites.....	34	(Z)	Recreation travel (mechanized).....	37,532	23.2
Boating sites.....	1,330	0.8	Automobile.....	34,296	21.0
Swimming sites.....	1,108	0.7	Scooter and motorcycle.....	1,741	1.1
Campgrounds.....	31,670	19.4	Ice and other.....	1,795	1.1
Picnic grounds.....	4,802	2.9	Boating.....	4,267	2.6
Hotels, lodges, resorts.....	4,011	2.5	Games and team sports.....	585	0.4
Organization sites.....	5,770	3.5	Waterskiing and other water sports.....	604	0.4
Concession sites.....	414	0.3	Swimming and scuba diving.....	2,933	1.8
Recreation residence sites.....	7,991	4.9	Winter sports.....	5,899	3.7
Winter sports sites.....	5,682	3.5	Fishing.....	14,868	9.2
Visitor centers.....	140	0.1	Hunting.....	14,148	8.7
Dispersed areas.....	99,098	60.9	Hiking and mountain climbing.....	4,962	3.0
Roads (recreation).....	38,738	23.8	Horseback riding.....	2,170	1.3
Trails (recreation).....	5,573	3.4	Resort use.....	4,083	2.5
Waters ¹	20,278	12.5	Organization camp use.....	4,324	2.7
General undeveloped country.....	34,609	21.2	Recreation residence use.....	8,015	4.9
			Gathering forest products.....	1,441	0.9
			Nature study.....	878	0.6
			Viewing scenery, sports, environment.....	5,543	3.4
			Visitor information (exhibits, talks, etc.).....	1,868	1.1

Z Less than 0.05 percent. ¹ Includes all recreation streams, rivers, lakes, reservoirs, etc.

Source: Dept. of Agriculture, Forest Service; unpublished data.

Public Lands, Parks, Recreation, and Travel

No. 296. NATIONAL PARK SYSTEM—SUMMARY: 1950 TO 1969

(For years ending June 30, except as noted. Includes data for 5 areas in Puerto Rico and Virgin Islands)

ITEM	1950	1955	1960	1965	1967	1968	1969
Finances (\$1,000):							
Expenditures reported ¹	24,051	35,433	74,216	131,610	125,985	125,578	133,139
Salaries and wages	11,829	16,921	29,854	48,566	62,100	69,236	71,841
Improvements and maintenance ²	2,918	3,200	4,662	8,301	11,074	12,323	12,696
Lands	327	1,685	1,612	10,578	1,479	108	116
Construction ³	7,307	11,726	38,222	55,264	42,254	20,733	33,214
Other ²	1,070	1,921	4,866	8,901	9,078	14,178	15,372
Funds available for expenditures	37,447	53,750	115,711	183,064	173,023	183,486	171,124
Appropriations	30,117	33,077	79,551	128,366	123,173	128,461	104,851
Other	7,380	20,673	36,160	54,698	49,850	55,025	66,273
Revenue from operations ⁴	3,528	4,914	5,685	7,350	8,398	8,970	9,183
Visits (1,000):⁵							
All areas	33,253	56,573	79,229	121,312	139,076	150,836	163,990
National parks	13,919	18,820	28,630	38,566	39,641	42,515	42,519
National monuments	5,310	7,954	10,738	12,280	13,741	14,206	14,610
National historical and military areas	9,477	12,604	21,820	40,695	42,137	44,903	48,708
National parkways	1,996	6,700	8,988	12,977	21,130	23,919	26,678
National recreation areas	2,551	3,655	3,650	6,222	8,954	10,385	12,701
National seashores	(X)	265	467	3,895	5,911	7,044	8,616
National Capital Parks	(NA)	6,565	6,941	9,171	8,162	7,773	10,098
Overnight stays:							
Total reported	4,501	6,440	9,365	13,047	16,029	16,346	16,097
Camper days	5,231	5,275	4,846	8,085	9,314	9,413	9,049
In commercial lodgings	2,270	2,165	2,764	3,327	4,086	4,776	4,807
Other	(NA)	(NA)	1,755	1,035	2,028	2,167	2,241
Land:							
Total ⁶	1,000 acres	22,976	23,873	24,458	27,169	28,062	29,508
Parks	1,000 acres	11,420	12,641	13,205	14,015	13,930	14,458
Recreation areas	1,000 acres	2,010	2,042	2,039	3,634	3,687	3,809
Other	1,000 acres	9,546	9,190	9,214	9,520	10,483	11,241
Acquisition, gross ⁷	acres	860,418	12,603	21,422	318,653	59,219	68,596
By purchase	acres	1,907	3,192	5,710	41,793	52,355	58,522
By gift	acres	785,178	3,295	10,300	12,716	3,124	5,208
By transfer	acres	45,080	—	320	236,833	1,285	517
By exchange	acres	28,253	6,116	5,092	27,311	2,455	4,340
Exclusion	acres	—	—	204	589	21	92
Acquisition, net	acres	860,417	12,603	21,218	318,324	59,198	68,504

[—] Represents zero. NA Not available. X Not applicable.¹ Excludes transfers and allocations from appropriations to other agencies (e.g., Land and Water Conservation Fund, etc.). ² Excludes salaries and wages.³ Represents receipts deposited in Treasury; not available for expenditure by National Park Service.⁴ For calendar year; 1950 and 1955 data not adjusted for comparability with counting system as modified in 1960. Prior to 1965, excludes visits to White House. ⁵ Excludes National Capital Parks.⁶ Excludes "other" overnight stays. ⁷ Acreage as of Jan. 1.⁸ Represents U.S. lands alienated by exchange of U.S. and private lands.Source: Dept. of the Interior, National Park Service; *Campground Use in the National Park Service, Camper Days in Areas Administered by the National Park Service, Public Use of the National Parks*, and unpublished data.

No. 297. NATIONAL PARK SYSTEM—TYPES OF AREAS: 1970

[As of January 1. Includes data for 5 areas in Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1967*, series H 455-470]

TYPE OF AREA	Number of areas	Total acreage	TYPE OF AREA	Number of areas	Total acreage
National Park System	278	29,508,288	National memorials	21	5,748
Historical areas	170	476,934	National cemeteries	10	220
Natural areas	73	24,413,754	National seashores	7	355,005
Recreational areas	35	4,617,600	Parkways	5	150,261
National parks	35	14,458,276	National lakeshores	2	75,721
National historical parks	13	44,763	National scenic riverways	3	145,364
National monuments	85	10,222,046	National Capital Parks ¹	1	7,787
National military parks	11	31,720	White House	1	18
National Memorial Park	1	70,436	Parks, other	5	25,605
National battlefields	5	4,229	National recreation areas	13	3,809,004
National battlefield parks	4	9,983	International Park	1	10
National battlefield sites	3	786	National Scientific Reserve	1	32,500
National historic sites	49	9,679	Trail	1	50,000
			Historic Area	1	7

¹ Includes portion of Chesapeake and Ohio Canal among the 708 units administered, as of Dec. 31, 1969.Source: Dept. of the Interior, National Park Service; semiannual report, *Areas Administered by the National Park Service*.

Recreation Areas

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No. 298. OUTDOOR RECREATION—FEDERAL ACQUISITIONS AND GRANTS: 1966 TO 1969

[Acres in thousands; money figures in thousands of dollars. For years ending June 30. Covers only projects financed by Land and Water Conservation Fund. Federal, State, and local agencies not eligible for this fund also finance some outdoor recreation projects entirely with their own funds. Grants to States are on a dollar-for-dollar matching basis]

ITEM	1966	1967	1968	1969
Federal acquisitions:				
Acres purchased, total	33.8	131.0	146.0	280.8
National Park Service	4.4	52.6	56.2	117.6
Forest Service	29.4	78.4	87.2	162.4
Bureau of Sport Fisheries and Wildlife	—	—	2.6	.8
Cost total	7,993	39,780	29,622	86,566
National Park Service	5,513	26,139	19,207	69,257
Forest Service	2,480	13,634	9,185	16,093
Bureau of Sport Fisheries and Wildlife	—	7	1,230	1,216
Federal grants, total	14,483	82,071	71,585	72,564
State	11,492	49,639	48,561	26,615
County	773	7,953	7,369	12,025
Local	2,218	24,479	16,655	33,824
For acquisition	5,560	29,935	27,275	37,928
For development and/or planning	8,933	52,136	44,310	34,638

— Represents zero.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; unpublished data.

No. 299. OUTDOOR RECREATION—FEDERAL ACQUISITIONS AND GRANTS, BY STATES: 1969

[Money figures in thousands of dollars. For year ending June 30. See headnote, table 298]

STATE OR OTHER AREA	FEDERAL ACQUISITIONS		Federal grants	STATE OR OTHER AREA	FEDERAL ACQUISITIONS		Federal grants
	Acres purchased	Cost			Acres purchased	Cost	
Total	280,768	86,566	72,564	Montana	1,258	565	818
Alabama	1,024	76	1,086	Nebraska	—	—	727
Alaska	64	13	343	Nevada	365	27	616
Arizona	1,488	981	650	New Hampshire	942	228	354
Arkansas	3,846	301	1,168	New Jersey	2,503	2,563	1,390
California	32,603	36,904	4,766	New Mexico	2,778	905	654
Colorado	853	882	955	New York	99	1,526	3,072
Connecticut	—	—	1,757	North Carolina	1,501	2,980	990
Delaware	—	—	564	North Dakota	—	—	617
District of Columbia	—	—	192	Ohio	6,473	498	3,244
Florida	5,725	4,230	1,177	Oklahoma	320	18	992
Georgia	24,203	2,092	1,727	Oregon	1,043	354	1,446
Hawaii	—	—	98	Pennsylvania	2,467	1,741	4,053
Idaho	1,939	242	633	Rhode Island	—	—	655
Illinois	7,452	741	4,583	South Carolina	1,604	284	1,969
Indiana	4,535	9,468	2,736	South Dakota	2,435	269	765
Iowa	100	296	1,081	Tennessee	2,563	307	2,026
Kansas	—	—	887	Texas	58,392	1,479	3,646
Kentucky	7,856	314	1,978	Utah	2,641	738	903
Louisiana	40	7	978	Vermont	77	8	565
Maine	—	—	1,060	Virginia	19,933	3,371	1,430
Maryland	2,279	4,563	1,578	Washington	328	955	999
Massachusetts	(1)	155	1,900	West Virginia	16,651	577	1,170
Michigan	30,004	1,881	2,217	Wisconsin	6,604	832	1,035
Minnesota	417	91	1,379	Wyoming	1,181	641	239
Mississippi	319	85	757	Other areas ²	60	373	721
Missouri	23,655	1,965	1,219				

— Represents zero.

¹Deficiency award for previously acquired acreage.

²Comprises Puerto Rico, American Samoa, Guam, and Virgin Islands.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; unpublished data.

No. 300. STATE PARK SYSTEMS—SUMMARY: 1950 TO 1967

[For years ending June 30, in most cases. Prior to 1969, excludes Alaska and Hawaii. Number of agencies which reported varies from year to year. Covers parks, historic sites, and parkways reported by State park and State historical agencies. See also *Historical Statistics, Colonial Times to 1967*, series H 475-487.]

ITEM	1950	1955	1959	1960	1961	1962	1967 ¹
Areas ² —number	1,725	2,034	2,433	2,664	2,792	2,544	3,202
Acreage ² —	4,657	5,086	5,681	5,802	5,799	5,768	7,352
Expenditures—\$1,000	\$ 36,390	\$ 55,093	\$ 88,268	\$ 87,373	\$ 110,101	\$ 106,151	\$ 295,146
Salaries and wages—\$1,000	13,622	22,073	33,548	37,137	41,076	42,094	77,037
Supplies and equipment—\$1,000	7,738	11,351	17,383	19,132	19,905	18,420	36,935
Lands—\$1,000	2,651	5,523	14,834	12,077	13,035	12,296	57,410
Improvements—\$1,000	12,364	15,293	22,432	19,026	36,085	34,004	107,923
Funds available for expenditures—\$1,000	52,283	89,075	\$ 139,341	\$ 131,419	\$ 133,673	\$ 144,611	\$ 472,467
Appropriations—\$1,000	28,421	43,382	65,283	69,294	89,862	98,734	174,429
Other—\$1,000	23,862	26,693	73,767	61,794	43,821	45,877	298,085
Revenue from operations—\$1,000	6,646	13,817	20,773	22,641	23,364	26,466	50,084
Attendance—1,000	114,291	183,188	255,310	259,001	\$ 273,484	284,705	391,063
Day visits—1,000	108,212	169,123	287,316	288,432	249,188	280,745	354,810
Overnight visits—1,000	6,070	21,057	317,994	320,569	22,009	24,050	36,244
Cabins and hotels—1,000	1,223	1,576	1,944	1,697	2,230	2,212	2,350
Organized camps—1,000	1,480	1,697	2,096	2,235	2,206	2,249	2,055
Tent and trailer camps—1,000	3,377	7,650	13,734	16,217	18,563	18,753	31,839
Personnel—number	10,626	13,637	18,690	17,537	18,126	17,621	20,264
Professional—number	401	378	607	731	1,386	(NA)	(NA)
Year-round—number	4,191	5,057	6,966	7,412	7,984	7,075	11,477
Seasonal—number	6,435	7,980	9,724	10,125	10,142	10,546	17,777
Land acquisition—acres	82,042	70,148	\$ 251,689	\$ 68,326	156,485	(NA)	(NA)
By purchase—acres	18,236	13,750	52,801	38,015	64,566	(NA)	(NA)
By gift—acres	4,586	35,724	17,740	7,585	11,648	(NA)	(NA)
By other means—acres	39,220	20,674	175,321	21,826	80,271	(NA)	(NA)

NA Not available.

¹ Source: National Recreation and Park Association, Washington, D.C.; 1967 *State Park Statistics*.

² Excludes State forests, wildlife refuges, and waysides not administered by State park agencies.

³ Includes data for which the detailed breakdown is not available.

⁴ Excludes Colo., Del., Ill., Minn., and Nebr. because State park systems expenditures were not shown separately in consolidated reports submitted by States. ⁵ Includes 836,086 primitive campers (few if any facilities).

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *State Outdoor Recreation Statistics—1962*, except as noted.

No. 301. MUNICIPAL AND COUNTY PARK AND RECREATION AREAS—NUMBER, ACREAGE, PROFESSIONAL PERSONNEL, AND SELECTED FACILITIES: 1940 TO 1965

[Represents only park and recreation systems which returned questionnaires or were personally contacted by other means. In 1965, 2,784 municipal and 365 county agencies submitted reports. See *Historical Statistics, Colonial Times to 1967*, series H 488-499, for related data.]

ITEM	1940	1946	1950	1955	1960	1965
Park and other recreation areas:						
Number	(NA)	(NA)	17,142	20,417	24,710	30,509
Acreage	(NA)	(NA)	644,067	748,701	1,015,461	1,496,378
Professional personnel, total	24,533	41,159	58,029	76,878	99,666	119,515
Full time, year-round	3,559	5,147	6,784	8,387	9,216	19,208
Playgrounds under leadership	9,921	11,559	14,747	18,224	20,107	24,298
Selected facilities:						
Ball diamonds, 90 foot	3,904	4,323	5,502	5,542	7,044	9,335
Bathing beaches	572	618	780	830	951	1,261
Golf courses, 9 and 18 hole	387	340	454	478	585	1,005
Outdoor swimming pools	898	1,116	1,280	1,813	2,513	4,277
Tennis courts	12,075	11,847	13,085	13,188	15,676	19,926
Recreation buildings	1,750	1,832	2,987	4,097	3,828	6,486
Indoor recreation centers	3,986	4,021	6,630	9,400	13,142	16,041
Softball diamonds	10,042	10,034	12,266	11,884	14,832	17,467

NA Not available.

Source: National Recreation and Park Association, Washington, D.C.; *Recreation and Park Yearbook*. (Copyright.)

Parks and Recreational Areas

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No. 302. STATE AND LOCAL PARK AND RECREATION AREAS, SUMMARY—STATES: 1965

STATE	STATE ¹			MUNICIPAL AND COUNTY ²						
	Areas		Expenditures ² (\$1,000)	Park and recreation areas		Paid employees		Recreation buildings and indoor centers	Expenditures (\$1,000)	
	Number	Acres (1,000)		Number	Acreage (1,000)	Total	Full-time professionals		Land, buildings, permanent improvements	Current operating expenses
U.S.	18,610	39,701	247,335	30,509	1,496.4	248,170	19,208	22,527	290,221	611,158
Ala.	139	410	611	342	7.8	1,521	262	154	2,491	4,281
Alaska	117	836	2,116	29	1.4	48	5	4	183	196
Ariz.	691	121	2,251	249	182.9	2,424	125	328	1,067	6,623
Ark.	49	178	749	43	2.1	240	7	21	63	430
Calif.	216	921	32,448	2,840	188.8	34,578	3,445	6,415	49,365	111,077
Colo.	72	113	6,594	317	19.3	2,877	119	280	1,562	3,602
Conn.	230	160	5,237	556	17.9	4,856	457	453	4,980	9,574
Del.	35	24	331	174	2.8	580	16	35	121	1,347
D.C.	(X)	(X)	(X)	846	40.8	3,287	494	187	5,567	15,100
Fla.	809	2,891	4,978	1,289	30.4	7,120	1,169	636	6,607	22,800
Ga.	312	773	2,310	675	8.7	2,245	448	184	2,152	5,514
Hawaii	90	1,302	2,268	298	4.2	1,152	106	87	3,757	4,744
Idaho	144	593	2,634	158	3.1	960	30	86	4,471	1,054
Ill.	129	1,008	10,398	1,800	98.8	19,628	1,479	970	19,605	50,079
Ind.	246	230	244	637	19.6	4,717	345	424	6,036	12,208
Iowa	513	160	5,361	728	29.5	3,030	164	208	2,288	4,680
Kans.	226	102	2,014	364	13.0	2,785	177	221	2,090	3,565
Ky.	135	152	11,135	189	10.8	2,280	92	262	1,782	2,622
La.	47	1,807	2,160	182	7.7	1,995	314	154	3,145	4,184
Maine	626	241	3,185	118	1.3	639	90	68	241	1,287
Md.	99	198	(N.A.)	532	23.9	6,397	485	600	10,635	14,708
Mass.	574	340	4,340	888	30.4	7,200	268	340	3,734	11,554
Mich.	2,953	4,190	17,980	1,475	48.4	18,283	748	1,198	7,666	20,119
Minn.	735	3,701	7,767	936	43.6	6,171	354	682	3,355	9,172
Miss.	144	1,262	1,322	120	2.6	903	131	85	499	1,608
Mo.	294	318	6,649	452	28.9	8,667	786	205	6,719	12,184
Mont.	268	634	549	171	13.3	433	35	94	219	854
Nebr.	122	131	3,433	201	6.8	1,304	47	83	683	2,684
Nev.	22	319	1,592	76	7.0	586	77	22	1,406	1,646
N.H.	285	76	2,705	144	4.2	764	45	102	412	1,170
N.J.	134	291	2,889	1,038	30.9	8,496	575	727	7,435	17,248
N. Mex.	90	346	2,461	158	15.3	663	50	111	1,640	1,588
N.Y.	304	8,638	5,106	2,966	92.8	32,890	1,224	1,194	63,189	87,770
N.C.	156	282	4,461	478	14.9	2,942	341	297	3,913	6,401
N. Dak.	216	84	1,381	97	3.7	623	32	50	719	1,100
Ohio	492	368	7,627	1,531	205.3	11,538	874	894	13,200	26,785
Oklahoma	88	491	6,190	389	21.5	1,567	120	107	1,620	3,016
Oreg.	287	951	6,640	709	21.5	2,638	157	319	2,483	6,824
Pa.	495	3,083	17,006	1,334	33.3	10,404	629	903	12,514	26,818
R.I.	101	31	349	184	2.2	1,187	54	104	1,078	1,702
S.C.	56	158	2,485	226	2.1	682	178	124	203	1,593
S. Dak.	406	215	348	108	2.5	499	32	38	255	1,018
Tenn.	1,374	743	5,472	449	16.0	3,710	470	306	2,938	7,499
Tex.	954	388	7,097	1,515	63.4	7,485	783	598	13,769	21,158
Utah	123	241	2,483	108	2.0	999	32	180	665	1,234
Vt.	161	152	2,267	109	2.2	438	19	83	122	501
Va.	126	156	3,491	496	22.5	3,228	642	562	3,437	8,291
Wash.	1,646	4,148	(N.A.)	742	19.1	2,994	205	427	2,959	9,550
W. Va.	63	262	1,816	189	6.7	1,487	58	278	2,146	2,425
Wis.	1,075	944	20,189	1,060	41.8	10,968	307	742	6,325	19,731
Wyo.	82	88	2,426	65	27.0	279	16	27	154	541

N.A. Not available. X Not applicable.

¹ Source: Bureau of Outdoor Recreation. Covers areas of 10 acres or more administered by State park, forest, fish and wildlife, historic preservation, highway, and other agencies. ² For fiscal year ending in 1964.

3,142 reporting agencies.

Source: National Recreation and Park Association, Washington, D.C.; *Recreation and Park Yearbook, 1966* (copyright), except as noted.

No. 303. NUMBER AND COST OF HUNTING AND FISHING LICENSES: 1950 TO 1968
 [For years ending June 30. Prior to 1960, hunting and fishing licenses exclude Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 523-524]

ITEM	1950	1955	1960	1964	1965	1966	1967	1968
Hunting Licenses:								
Total license sales ¹	1,000	12,638	14,192	18,440	19,059	19,372	19,587	20,225
Resident	1,000	12,441	13,853	17,808	18,175	18,518	18,749	19,377
Nonresident	1,000	197	339	632	884	854	838	848
Cost to hunters	\$1,000	37,641	42,791	60,981	72,071	75,173	77,278	81,472
Fishing Licenses:								
Total license sales ¹	1,000	15,338	18,855	23,323	24,472	24,976	26,302	27,072
Resident	1,000	13,309	16,212	20,190	21,166	21,576	22,770	23,348
Nonresident	1,000	2,029	2,643	3,133	3,308	3,400	3,532	3,724
Cost to anglers	\$1,000	34,018	39,502	52,143	60,213	62,857	67,165	73,008
Federal duck stamps sold ²	1,000	1,955	2,185	1,629	1,455	1,566	1,559	1,805
								1,934

¹ Prior to 1960, paid license holders; for definition, see footnote 1, table 304.

² Total for 1969 is 1,840,750.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Federal Aid in Fish and Wildlife Restoration*, and unpublished data.

No. 304. NUMBER AND COST OF STATE FISHING AND HUNTING LICENSES, BY STATES: 1968

[For year ending June 30. Excludes Migratory Waterfowl Stamps (Duck Stamps)]

STATE	PAID LICENSE HOLDERS ¹ (1,000)		COST OF LICENSES ² (\$1,000)		STATE	PAID LICENSE HOLDERS ¹ (1,000)		COST OF LICENSES ² (\$1,000)	
	Fish- ing	Hunt- ing	Fish- ing	Hunt- ing		Fish- ing	Hunt- ing	Fish- ing	Hunt- ing
United States	28,787	20,859	79,985	88,681	Missouri	1,244	594	3,773	2,644
Alabama	480	358	1,045	897	Montana	205	245	1,383	1,594
Alaska	86	49	543	708	Nebraska	261	383	953	1,756
Arizona	445	323	1,281	1,242	Nevado	124	110	432	679
Arkansas	542	274	2,018	1,274	New Hampshire	136	99	659	824
California	5,411	1,462	9,697	4,388	New Jersey	286	223	937	1,053
Colorado	443	404	2,194	5,181	New Mexico	167	122	814	1,003
Connecticut	153	72	589	248	New York	882	1,196	2,757	4,218
Delaware	11	25	28	88	North Carolina	584	492	1,480	1,655
Florida	612	223	1,741	1,198	North Dakota	108	203	245	611
Georgia	684	323	1,347	1,076	Ohio	824	510	2,666	2,257
Hawaii	4	8	13	61	Oklahoma	487	256	1,456	921
Idaho	413	421	1,506	1,578	Oregon	954	725	2,668	2,372
Illinois	785	492	1,682	1,691	Pennsylvania	608	1,620	3,118	7,455
Indiana	652	490	1,641	1,279	Rhode Island	19	18	57	41
Iowa	420	307	1,215	1,049	South Carolina	402	210	945	728
Kansas	811	222	960	869	South Dakota	196	321	569	1,042
Kentucky	440	253	1,672	1,066	Tennessee	1,159	586	1,703	1,638
Louisiana	293	422	605	876	Texas	1,232	880	2,464	2,291
Maine	236	203	1,069	1,612	Utah	297	230	1,298	1,807
Maryland	172	290	443	1,066	Vermont	126	160	316	1,082
Massachusetts	234	138	1,220	778	Virginia	673	748	1,302	1,865
Michigan	1,204	1,261	2,803	5,557	Washington	466	657	2,397	2,857
Minnesota	1,537	626	3,526	2,588	West Virginia	230	228	694	907
Mississippi	354	377	876	1,062	Wisconsin	1,144	814	4,599	4,988
					Wyoming	171	192	706	2,833

¹ Resident and nonresident. U.S. total includes multiple counting of license holders who bought 1 or more nonresident licenses as well as a license for their own home State.

² Total cost to fishermen or hunters for all licenses, permits, tags, stamps, etc.

Source: Dept. of the Interior, Fish and Wildlife Service; annual report, *Federal Aid in Fish and Wildlife Restoration*.

No. 305. NUMBER OF SPORT FISHERMEN AND HUNTERS: 1960 AND 1965

[In thousands. For 1960, persons 12 years old and over who fished and hunted; for 1965, persons 12 years old and over who spent \$5 or more and reported 3 or more fishing and hunting recreation days during the year. Based on samples of approximately 18,000 households. For composition of divisions, see fig. I, p. xii.]

ITEM	1960		1965					On trips lasting more than 1 day	
	Total persons	Total who fished and/or hunted	Total persons	Total who fished and/or hunted	Total persons	Total who fished and/or hunted	Total who hunted		
	Total	Total	Total	Total	Total	Total	Total	Fishermen	Hunters
Total	131,226	30,435	141,928	32,881	9,050	28,348	13,583	10,358	3,736
By division:									
New England	8,349	1,368	9,256	1,650	421	1,488	583	375	132
Middle Atlantic	26,493	3,432	27,346	3,602	789	2,760	1,681	847	380
East North Central	26,833	6,316	28,124	6,214	1,885	5,336	2,563	2,332	864
West North Central	10,149	3,883	11,681	3,678	1,168	3,226	1,620	1,346	369
South Atlantic	17,798	4,422	20,598	5,626	1,328	5,054	1,900	1,374	337
East South Central	9,277	2,778	9,652	2,687	908	2,201	1,204	481	136
West South Central	11,837	3,666	12,724	3,713	1,136	3,278	1,571	1,112	413
Mountain	5,222	1,646	5,029	1,565	684	1,261	988	787	557
Pacific	15,268	3,422	17,528	4,246	931	3,744	1,433	1,704	548
By residence:									
Big cities	22,059	2,365	22,639	2,945	553	2,705	703	1,142	399
Small cities and suburbs	35,368	6,376	56,298	11,866	2,692	10,744	3,814	5,170	1,589
Towns and rural areas	73,809	21,693	63,093	18,070	5,805	14,890	8,976	4,048	1,748
By sex:									
Male	62,732	23,171	67,508	25,216	8,582	20,904	12,804	7,803	3,445
Female	68,494	7,264	74,420	7,665	468	7,354	779	2,568	298

Source: Dept. of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1960 and 1965*.

No. 306. PARTICIPATION IN SELECTED OUTDOOR ACTIVITIES—PERSONS 12 YEARS OLD AND OVER: 1965

[Data pertain to the 1965 summer season only, with the exception of hunting and the three winter activities. The data for these activities are for the period September 1964 through May 1965. Based on a nationwide survey of outdoor recreation interests and participation of persons 12 years old and over, conducted by the Bureau of the Census, consisting of one sample involving approximately 7,200 interviews]

OUTDOOR ACTIVITY	PARTICIPANTS		Average number of days per participant ¹	Number of days of participation, total (millions)	OUTDOOR ACTIVITY	PARTICIPANTS		Average number of days per participant ¹	Number of days of participation, total (millions)
	Number (millions)	Rank				Number (millions)	Rank		
Picnicking	80.5	1	5.6	451	Attending outdoor concerts and plays	15.5	14	3.0	47
Driving for pleasure	77.7	2	12.1	940	Camping	14.1	15	6.9	97
Sightseeing	69.2	3	6.6	457	Ice skating	12.7	16	(*)	(*)
Swimming	67.8	4	14.3	970	Horseback riding	11.3	17	6.8	77
Walking for pleasure	67.8	5	15.2	1,031	Hiking	9.9	18	5.1	50
Playing outdoor games and sports	53.7	6	17.3	929	Water skiing	8.5	19	6.6	56
Fishing	42.4	7	7.6	322	Bird watching	7.1	20	15.9	13
Attending outdoor sports events	42.4	8	5.8	246	Snow skiing	5.7	21	(*)	(*)
Boating ²	33.9	9	6.5	220	Canoeing	4.2	22	4.5	19
Bicycling	22.6	10	20.6	466	Sailing	4.2	23	6.2	26
Nature walks	19.8	11	5.9	117	Wildlife and bird photography	2.8	24	5.9	17
Sledding	18.4	12	(*)	(*)	Mountain climbing	1.4	25	3.1	4
Hunting	17.0	13	(*)	(*)					

¹ Data refer to number of days that individuals participated regardless of amount of time spent in participation.

² Other than canoeing and sailing.

The 1965 survey did not measure activity days for ice skating, snow skiing, sledding, and hunting.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *The 1965 Survey of Outdoor Recreation Activities*. October 1967.

No. 307. PERSONAL CONSUMPTION EXPENDITURES FOR RECREATION: 1940 TO 1968
 [In millions of dollars. Prior to 1960, excludes Alaska and Hawaii. Represents market value of purchases of goods and services by individuals and nonprofit institutions. See also *Historical Statistics, Colonial Times to 1957*, series H 500-515]

TYPE OF PRODUCT OR SERVICE	1940	1945	1950	1955	1960	1965	1966	1967	1968
Total recreation expenditures.....	3,761	6,139	11,147	14,078	18,295	26,298	28,850	30,903	33,552
Books and maps.....	234	520	674	867	1,304	2,061	2,365	2,670	2,669
Magazines, newspapers, and sheet music.....	589	965	1,495	1,869	2,193	2,868	3,050	3,217	3,413
Nondurable toys and sport supplies.....	306	553	1,394	1,803	2,417	3,438	3,743	3,993	4,700
Wheel goods, durable toys, sports equipment, boats, and pleasure aircraft.....	254	400	869	1,386	2,106	2,933	3,248	3,481	4,012
Radio and television receivers, records, and musical instruments.....	494	344	2,421	2,869	3,412	6,013	6,905	7,409	7,852
Radio and television repair.....	32	88	283	516	801	1,032	1,072	1,143	1,227
Flowers, seeds, and potted plants.....	201	378	457	546	641	983	1,078	1,113	1,234
Admissions to specified spectator amusements.....	904	1,714	1,781	1,801	1,806	1,811	1,923	2,027	2,130
Motion picture theaters.....	735	1,450	1,376	1,326	951	927	984	989	1,045
Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics).....	71	148	183	245	365	495	545	605	632
Spectator sports.....	98	116	222	230	290	380	414	433	453
Clubs and fraternal organizations ¹	203	281	482	569	733	879	924	988	1,049
Commercial participant amusements ²	197	284	448	584	1,161	1,509	1,555	1,610	1,675
Parl-mutuel net receipts.....	55	153	239	381	517	734	765	795	881
Other ³	292	450	624	887	1,404	2,039	2,203	2,487	2,730

¹ Gross receipts less cash benefits of fraternal, patriotic, and women's organizations except insurance; and dues and fees of athletic, social, and luncheon clubs, and school fraternities.

² Billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; daily fee golf greens fees; golf instruction, club rental, and caddy fees; sightseeing buses and guides; and private flying operations.

³ Photo developing and printing, photographic studios, collectors' net acquisitions of stamps and coins, hunting dog purchase and training, sports guide service, veterinary service, purchase of pets, camp fees, nonvending coin machine receipts minus payoff, and other commercial amusements.

Source: Dept. of Commerce, Office of Business Economics; *The National Income and Product Accounts of the United States, 1929-1965*, and *Survey of Current Business*, July 1969.

No. 308. PERFORMING ARTS—SELECTED DATA: 1955 TO 1969
 [For season ending in year shown, except as indicated]

ITEM	1955	1960	1964	1965	1966	1967	1968	1969
Theater, legitimate, New York City:								
Broadway shows.....	72	76	82	77	87	82	87	80
New productions, including revivals.....	58	58	63	67	68	69	73	67
Performances.....	8,917	9,214	7,975	10,000	10,360	10,152	10,056	9,872
Off Broadway productions.....	41	114	131	86	82	91	79	99
New ¹	41	100	107	75	75	80	77	118
Performances.....	1,883	6,803	9,296	6,637	4,865	6,326	5,140	5,828
Dance groups: ²								
Professional.....	(NA)	139	196	(NA)	(NA)	(NA)	(NA)	(NA)
Tours, October (towns and cities visited):	* 106	142	117	229	176	136	(NA)	(NA)
Performances.....	* 115	192	191	265	230	199	(NA)	(NA)
Performances, New York City, Oct.-Feb.	197	191	222	340	(NA)	(NA)	(NA)	(NA)
Opera companies ⁴ :	543	754	754	732	752	918	(NA)	(NA)
Performances.....	3,217	4,232	3,877	4,176	4,777	5,487	(NA)	(NA)
Orchestras: ⁵								
Symphony.....	1,029	1,226	1,363	1,385	(NA)	(NA)	1,441	1,441
College.....	240	250	284	290	(NA)	(NA)	298	298
Community.....	761	933	1,025	1,032	(NA)	(NA)	1,020	1,021
Urban.....	(*)	(*)	(*)	(*)	(*)	31	36	31
Metropolitan.....	(*)	18	29	38	48	48	59	63
Major.....	28	25	26	26	26	28	28	28
Musicians.....	2,079	(NA)	2,207	2,216	2,343	\$ 2,465	* 2,396	\$ 2,612
Concerts played.....	2,257	(NA)	2,877	2,987	3,488	\$ 3,658	\$ 3,984	\$ 3,976
Attendance.....	1,000	4,900	(NA)	6,400	6,750	7,747	8,933	8,229
Gross expenditures.....	\$ 1,000	13,838	(NA)	24,100	27,700	35,384	41,245	\$ 46,123

NA. Not available. ¹ Comprises new musicals and plays, revivals, special productions, and presentation of special companies and visiting foreign troupes.

² Comprises groups of more than 2 dancers having an active repertoire of at least 1 full program, a company organization separate from a school group, and at least 2 performances before paying audiences. Based on reports to *Dance Magazine's "Annual Directory of Dance Attractions."* ³ 1956 data.

⁴ Comprises high school, college, other amateur, and professional companies.

⁵ Source: American Symphony Orchestra League, Inc., Vienna, Va. For years ending Aug. 31. Orchestras other than college are principally defined by their annual budgets: Community, \$100,000 prior to 1967, \$50,000 thereafter; urban, \$50,000-\$90,000; metropolitan, \$100,000-\$500,000. Metropolitan includes a few orchestras operating on budgets over \$500,000. ⁶ Classification began in 1967. ⁷ Classification began in 1958.

* 27 orchestras reporting. ⁸ 20 orchestras reporting. ⁹ 25 orchestras reporting.

Source: Except as noted, 1955-1965, William J. Baumol and William G. Bowen; *Performing Arts—The Economic Dilemma* (copyright 1966 by the Twentieth Century Fund, Inc., New York, N.Y.); thereafter, the Twentieth Century Fund, Inc., unpublished data.

No. 309. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1969

[See also *Historical Statistics, Colonial Times to 1957*, series H 516-522, and H 525]

ACTIVITY	Unit	1950	1955	1960	1965	1967	1968	1969
Baseball, major leagues: ¹								
Attendance	1,000	17,659	18,980	20,261	22,808	24,115	23,482	27,498
Regular season	1,000	17,463	16,617	19,911	22,442	23,811	23,102	27,226
National league ²	1,000	8,321	7,674	10,685	13,581	12,927	11,785	15,095
American league ³	1,000	9,142	8,943	9,227	8,861	10,884	11,317	12,131
World series ⁴	1,000	196	362	350	304	304	380	272
Softball, amateur, Amateur Softball Association of America:								
Teams	1,000	1,355	1,367	1,378	560	770	789	794
Leagues	1,000	1,59	1,61	1,63	109	261	263	268
Participants ⁴	1,000	(NA)	(NA)	1,8	18	20	17	19
Attendance ⁴	1,000	(NA)	(NA)	1,12	20	22	25	25
Youth program (established 1958):								
Teams	1,000	(X)	(X)	1,3,5	11,3	14,9	15,1	20,5
Leagues	1,000	(X)	(X)	1,0,7	3,7	5,1	5,0	5,2
Participants	1,000	(X)	(X)	1,48	268	398	374	400
Golf, Nat'l Golf Foundation, Inc.:								
Golfers ⁵	1,000	1,2,215	1,3,500	4,400	7,750	9,100	9,300	9,500
Courses	1,000	1,4,931	1,5,218	6,385	8,323	9,336	9,615	9,920
Size:								
9-hole	Number	1,2,972	1,3,048	3,660	4,554	5,069	5,179	5,277
18-hole and larger	Number	1,1,859	1,2,170	2,725	3,769	4,267	4,436	4,649
Classification:								
Private	Number	1,3,049	1,2,807	3,286	3,887	4,166	4,269	4,459
Daily fee	Number	1,1,141	1,1,534	2,254	3,388	3,960	4,110	4,192
Municipal	Number	1,741	1,877	895	1,068	1,210	1,236	1,275
Basketball, professional, Nat'l Basketball Assoc., attendance ^{1,7}	1,000	(NA)	(NA)	1,986	2,750	3,120	3,649	4,427
Football:								
Collegiate, Nat'l Collegiate Athletic Association:								
Teams	Number	8,674	8,621	620	616	610	612	615
Attendance	1,000	8,18,662	8,17,267	20,403	24,083	26,431	27,026	27,626
Professional, Nat'l Football League:								
Attendance	1,000	2,008	2,608	3,195	4,685	6,182	6,232	6,351
Regular season	1,000	1,978	2,522	3,128	4,634	5,941	5,882	6,000
Championship games	1,000	30	86	67	51	241	350	361
Professional, American Football League:								
Attendance	1,000	(X)	(X)	958	1,812	2,348	2,864	2,983
Regular season	1,000	(X)	(X)	926	1,782	2,295	2,635	2,700
Championship games	1,000	(X)	(X)	32	30	53	229	233
Boxing, professional matches: ⁸								
Boxers ¹⁰	Number	11,3,940	11,3,120	11,2,920	2,202	3,141	4,596	12,5,126
Receipts, gross ¹¹	\$1,000	11,2,800	11,6,335	11,5,902	8,264	8,310	7,264	12,8,110
Racing, National Association of State Racing Commissioners: ¹								
Horseracing: ¹⁴								
Racing days	Number	4,018	4,898	6,090	8,051	8,621	9,051	9,539
Attendance	1,000	26,201	38,503	46,879	62,887	63,373	65,460	68,099
Parimutuel turnover	Mil. dol.	1,638	2,592	3,358	4,615	4,922	5,316	5,723
Revenue to States	Mil. dol.	98	187	258	370	394	427	461
Monies distributed, total ¹⁵	Mil. dol.	47	85	111	165	175	206	232
Greyhound racing:								
Racing days	Number	1,738	2,143	2,478	2,443	2,914	2,949	3,037
Attendance	1,000	6,083	7,131	7,924	10,865	11,454	11,640	12,006
Parimutuel turnover	Mil. dol.	167	242	322	460	539	579	652
Revenue to States	Mil. dol.	11	17	22	33	37	41	47
Monies distributed, total ¹⁵	Mil. dol.	(NA)	(NA)	7	10	11	6	6
Bowling:								
Tenpin, American Bowling Congress: ⁷								
Establishments	Number	1,6,325	1,6,636	8,997	10,752	10,070	9,707	9,378
Lanes	Number	152,488	158,203	107,908	159,078	151,731	147,526	143,929
Membership:								
American Bowling Congress	1,000	1,1,417	1,1,738	3,665	4,944	4,625	4,600	4,450
Women's Bowling Congress	1,000	1,496	1,706	1,543	2,736	2,896	2,941	2,968
Amer. Jr. Bowling Congress	1,000	1,24	1,67	330	330	378	442	489
Duckpin, Nat'l Duckpin Bowling Congress: ^{1,16}								
Establishments	Number	463	556	653	641	545	525	495
Lanes	Number	5,550	6,875	8,707	8,714	7,181	6,982	6,739
Teams	Number	23,665	46,552	62,067	80,318	78,767	77,418	75,918

See footnotes at end of table.

No. 309. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1969—Continued

ACTIVITY	UNIT	1950	1955	1960	1965	1967	1968	1969
Motion picture theaters: ¹ ¹⁷								
Number, incl. drive-ins ¹²	1,000	19	19	17	14	18	19	(NA)
Receipts, gross	Mil. dol.	1,320	1,185	1,483	1,980	¹² 1,900	2,020	(NA)
Admission, average price	Dollars	.44	.50	.69	.85	1.19	1.30	(NA)
Outboard motors and boats, Boating Industry Association:								
Motors in use	1,000	¹ 2,811	¹ 4,210	5,800	6,645	6,904	6,988	7,101
Motors sold	1,000	¹ 367	¹ 515	488	393	444	500	510
Value, retail	Mil. dol.	1.63	1.153	221	188	226	266	304
Horsepower, average	(X)	16.9	12.9	27.4	28.2	30.1	31.5	33.1
Outboard boats sold	1,000	¹ 18 131	¹ 18 258	¹⁸ 294	¹⁸ 250	260	283	310
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	133	148	163	192
Length, average	Feet	(NA)	(NA)	(NA)	15.3	15.3	15.4	15.9
Inboard/outdrive boats sold	1,000	(18)	(18)	(18)	17	36	42	49
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	64	142	166	202
Boat trailers sold	1,000	¹ 18	¹ 129	206	130	160	200	235
Value, retail	Mil. dol.	(NA)	(NA)	(NA)	29	36	45	56

NA. Not available. X. Not applicable. ¹ Excludes Alaska and Hawaii.² Source: The National League of Professional Baseball Clubs, Cincinnati, Ohio.³ Source: The American League of Professional Baseball Clubs, Boston, Mass.; *American League Red Book*.⁴ Total adult participation, men and women.⁵ Includes attendance at national championships. ⁶ Golfers playing 15 rounds or more per year.⁷ Season ending in year shown. ⁸ Excludes Hawaii.⁹ Source: *The Ring* (copyright). Beginning 1965, includes Guam.¹⁰ Includes all boxers listed for one or more bouts. ¹¹ Excludes Alaska.¹² Estimated. ¹³ Excludes closed circuit TV receipts.¹⁴ Includes thoroughbred, harness, quarter horse, and fairs. ¹⁵ Stakes and purses.¹⁶ Season beginning in year shown. ¹⁷ Source: *The Film Daily Yearbook of Motion Pictures: 1960* (copyright).

Number of theaters represent first-run theaters in 95 cities of over 100,000 population.

¹⁸ Inboard/outdrive boats sold included with outboard boats sold.

Source: Compiled from sources listed in stub of table and footnotes.

No. 310. MUSEUMS—SUMMARY: 1966

[Museums defined as institutions for collecting, preserving, and interpreting historic, scientific, and artistic objects of lasting value. Data based on a survey of 4,950 museums of which 2,889 qualified for analysis]

ITEM	ALL MUSEUMS		GOVERNING AUTHORITY					
	Number	Percent	Government agencies			Educational institutions	Non-profit organizations	Other
			Total	Federal	State			
Total.....	2,889	100.0	1,030	286	331	413	319	1,417
Percent.....	100.0	(X)	35.7	9.9	11.5	14.3	11.0	49.0
Type of facility: ¹								
Exhibit building.....	2,067	71.5	669	220	177	272	284	1,035
Furnished historic structure.....	1,065	36.9	431	110	215	106	30	566
Preservation project.....	388	13.4	161	47	72	42	10	196
Nature or conservation center.....	254	8.8	140	65	31	44	19	98
Other ²	663	22.9	259	48	40	171	90	282
Subject of exhibits:								
Art only.....	420	14.5	53	7	9	37	132	225
History only.....	1,424	49.3	558	156	231	171	48	753
Science only.....	438	15.2	222	73	35	114	75	124
Combinations ³	607	21.0	197	50	56	91	64	315
Total with art.....	851	29.5	163	17	48	98	176	478
Total with history ¹	1,987	68.8	736	204	284	248	109	1,048
Total with science.....	776	26.9	367	118	68	181	117	268
Museums reporting expenditures.....	2,226	(X)	725	192	209	4334	262	1,145
Total expenditures ⁴ mil. dol.	513	(X)	254	101	98	50	113	138
Median expenditures ⁵ dol.	7,000	(X)	8,000	10,500	5,000	(4)	10,000	6,000
Paid staff members.....	53,330	(X)	18,598	7,347	3,195	8,056	5,275	26,007
Museums reporting visits.....	2,754	(X)	995	279	317	6399	277	1,363
Total visits..... mil.	560	(X)	276	175	27	74	8	264
Median visits ⁶	12,000	(X)	31,600	76,500	18,000	(4)	5,000	6,000

^X Not applicable. ¹ Duplicated count; institutions with more than one type of facility or multiple subjects counted more than once. ² Botanic gardens, aquariums, zoos, planetariums, and miscellaneous.³ Art and history; art and science; history and science; and art, history, and science.⁴ Museums reporting, total expenditures, and median expenditures: 241 municipal, \$43 million, \$12,000; 93 county, \$16 million, \$5,500; 25 church groups or affiliates, \$2 million, \$2,000; 59 other, \$7 million, \$10,000.⁵ For definition of median, see preface.⁶ Museums reporting, total visits, and median visits: 287 municipal, 58 million, 28,000; 112 county, 16 million, 11,450; 24 church groups or affiliates, 1 million, 12,000; 85 other, 10 million, 27,650.Source: Dept. of Health, Education, and Welfare, Office of Education; *Museums and Related Institutions, A Basic Program Survey*, 1970.

Travel—Passports Issued

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No. 311. VOLUME AND CHARACTERISTICS OF TRAVEL: 1967

[Travelers in millions; person-miles in billions. A trip involves one or more members of a household going out of town overnight or 100 miles or more 1-way in 1 day. Based on a nationwide probability sample of households concerning trips that ended between January 1 and December 31, Subject to sampling variability]

ITEM	TRAVELERS ¹		PERSON-MILES ²		ITEM	TRAVELERS ¹		PERSON-MILES ²	
	Number	Percent	Number	Percent		Number	Percent	Number	Percent
Total.....	361	100	312	100	Time duration:				
Purpose of trip:					1-day trip.....	32	9	24	8
Business.....	58	16	56	18	Overnight trips:				
Visiting.....	152	42	136	44	1 night.....	90	25	48	16
Other pleasure.....	143	40	113	36	2 nights.....	94	26	58	18
Other personal.....	7	2	6	2	3-5 nights.....	76	21	67	22
Vacation trips: ³					6-9 nights.....	35	10	45	14
Was a vacation.....	158	44	156	50	10 or more.....	35	10	70	23
Was not a vacation.....	183	51	139	45	Distance (1-way):				
Not reported.....	21	6	17	6	Under 100 miles				
Transportation:					overnight.....	109	30	20	6
Automobile.....	311	86	240	77	100-199 miles.....	119	33	49	16
Bus.....	9	3	6	2	200-499 miles.....	72	20	62	20
Commercial air.....	29	8	52	17	500-999 miles.....	23	6	45	14
Rail.....	5	1	6	2	1,000 miles or more.....	22	6	138	44
Other.....	7	2	7	2	Outside United States.....	15	4	(NA)	(NA)
Family income level:					Not reported.....	2	1	(NA)	(NA)
Less than \$4,000.....	38	11	35	11	Size of party:				
\$4,000-\$7,499.....	105	29	89	29	1 person.....	92	26	86	27
\$7,500-\$9,999.....	70	19	59	19	2 persons.....	98	27	88	28
\$10,000-\$14,999.....	73	20	66	21	3 or 4 persons.....	103	28	85	27
\$15,000 or more.....	41	11	35	11	5 or more.....	99	19	53	17
Not reported.....	34	10	29	9					

NA Not available. ¹ A traveler is a person on a trip and is counted each time he takes a trip.

² Person-miles: Double the 1-way straight-line miles of travelers adjusted for circuitry based on type of transport used. ³ Trips were classified as to vacation or not vacation, as well as main purpose.

Source: Dept. of Commerce, Bureau of the Census; 1967 Census of Transportation, Vol. I, *National Travel Survey*.

No. 312. PASSPORTS, BY CHARACTERISTICS OF TRAVEL AND TRAVELERS: 1950 TO 1969

[In thousands. Passports are actual count; other data based on a sample and prorated to total passports. Data refer to number of passports issued, not travelers (except as noted). Covers new and renewed passports except, effective Aug. 26, 1968, passports became valid for 5 years and renewals were eliminated. A single passport may cover more than one trip and more than one person]

ITEM	1950	1960	1965	1966	1967	1968	1969
	300	853	1,330	1,548	1,686	1,748	1,820
Total passports.....							
Object of travel: ¹							
Government.....	(NA)	116	191	216	161	210	167
Nongovernment.....	(NA)	737	1,139	1,332	1,524	1,538	1,653
Personal reasons ²	142	322	487	488	639	912	1,476
Pleasure.....	108	351	535	651	671	443	131
Business ⁴	27	25	76	135	141	104	25
Education.....	14	31	31	52	61	69	16
Religion.....	5	7	7	8	8	7	2
Health.....	1	1	1	1	2	2	-
Other.....	3	1	2	2	3	2	3
First area destination: ⁵							
Africa.....	5	8	20	23	20	21	20
Australia and Oceania.....	2	35	51	58	56	61	68
Europe.....	244	670	993	1,116	1,265	1,295	1,460
Far East.....	6	56	111	166	157	160	125
North, Central, and South America.....	33	59	100	121	128	129	92
Middle East.....	10	25	56	64	61	82	55
Mode of travel—departure: ⁶							
Ship.....	201	226	39	50	38	15	3
Air.....	97	627	1,291	1,498	1,648	1,733	1,817
Sex of traveler:							
Male.....	156	420	699	811	870	903	945
Female.....	144	433	631	737	815	845	875
Citizenship of traveler:							
Native.....	176	710	1,287	1,374	1,535	1,603	1,702
Naturalized.....	125	143	93	174	160	145	118

¹ Represents zero. NA Not available.

² Data not entirely comparable because of changes in classifications.

³ Includes "Personal business," "John husband," "Accompany husband," and "Visit family"; through 1965, also includes "Business and pleasure." ⁴ Includes "Sightsee," "Vacation," "Visit," and "Tourist."

⁵ Includes applicants formerly listed under "Employment" and "Commercial business"; beginning 1966, includes "Business and pleasure." ⁶ Excludes small number not stated.

Source: Dept. of State, Passport Office; annual report, *Summary of Passport Statistics*.

No. 313. FOREIGN TRAVEL—TRAVELERS AND EXPENDITURES: 1929 TO 1969

[Travelers in thousands; expenditures in millions of dollars. Covers residents of United States and Puerto Rico]

ITEM AND COUNTRY	1929	1937	1947	1950	1955	1960	1965	1968	1969 ¹
Total overseas travelers ²	517	435	435	676	1,075	1,634	2,623	3,885	4,623
Means of transport from United States:									
Sea	(NA)	(NA)	(NA)	298	318	317	237	147	151
Air	(NA)	(NA)	(NA)	378	757	1,317	2,388	3,733	4,472
Region of destination:									
Europe and Mediterranean	350	248	149	302	482	832	1,405	1,937	2,363
West Indies and Central America	136	153	245	323	522	641	801	1,461	1,700
South America	8	9	27	38	34	71	127	223	245
Other	23	24	14	13	37	90	200	264	315
Total expenditures ³	688	470	716	1,022	1,612	2,623	3,768	4,722	5,365
Transportation ⁴ :									
Foreign flag carriers ⁴	164	95	55	145	201	513	720	885	1,065
United States flag carriers ⁴	41	27	88	123	258	360	610	815	910
Expenditures abroad	483	348	573	754	1,153	1,750	2,438	3,022	3,390
Canada	178	156	241	261	306	380	600	820	900
Mexico	36	44	140	172	255	388	540	630	675
Total overseas areas	269	148	192	321	592	987	1,298	1,572	1,815
Europe and Mediterranean ⁵	213	97	107	225	430	692	795	925	1,075
West Indies and Central America	37	35	56	61	107	166	220	325	375
South America	5	4	16	22	22	45	68	87	92
Other ⁶	14	12	13	13	33	84	215	235	273

^{NA} Not available. ¹ Preliminary.

² Excludes the following: Travel to Canada and Mexico; travel between conterminous United States and Alaska, Hawaii, Puerto Rico, and Virgin Islands; cruise travelers; military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. ³ Includes shore expenditures of cruise travelers; excludes travel expenditures of military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad.

⁴ Excludes passenger fares of emigrant aliens. ⁵ Beginning 1960, new series; not comparable with earlier years.

⁶ Beginning 1965, Mediterranean Asia and Africa, and Eastern Europe included with "Other."

No. 314. TRAVEL TO EUROPE AND THE MEDITERRANEAN AREA—TRAVELERS AND AVERAGE EXPENDITURE: 1950 TO 1969

[Travelers in thousands. Covers residents of United States and Puerto Rico, except as noted]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969
Total travelers	302	482	832	1,405	1,570	1,800	1,937	2,363
Means of transport from United States:								
Sea	(NA)	214	230	184	175	132	109	110
Air	(NA)	268	602	1,221	1,305	1,668	1,828	2,253
Average expenditure and stay:								
Average per trip ¹ dollars	742	889	830	611	583	563	512	490
Average per day ² dollars	12.04	15.88	1(NA)	15.67	15.75	17.06	17.00	16.90
Average length of stay ³ days	64	56	(NA)	39	37	33	30	29

^{NA} Not available. ¹ Excludes transatlantic passenger fares. ² U.S. citizens only.

No. 315. FOREIGN TRAVEL TO THE UNITED STATES—TRAVELERS AND EXPENDITURES: 1955 TO 1969

[Includes travelers for business and pleasure, foreigners in transit through the United States, and students; excludes travel by foreign government personnel and foreign businessmen employed in the United States.]

AREA OF ORIGIN	TRAVELERS (1,000)					EXPENDITURES (mil. dol.)				
	1955	1960	1965	1968	1969 ¹	1955	1960	1965	1968	1969 ¹
Total	(NA)	(NA)	(NA)	(NA)	(NA)	654	1,025	1,545	2,030	2,363
Fares to U.S. carriers ²	(X)	(X)	(X)	(X)	(X)	(NA)	106	165	280	305
Canada	(NA)	(NA)	(NA)	(NA)	(NA)	304	489	490	638	815
Mexico	(NA)	(NA)	(NA)	(NA)	(NA)	110	228	390	493	530
Overseas areas	332	602	1,204	1,708	2,010	180	224	500	639	713
Europe and Mediterranean ³	131	274	584	828	892	61	90	200	233	264
West Indies, Central America, and South America	169	240	450	654	742	93	86	200	262	276
Other ³	32	70	190	318	376	26	48	100	144	172

^{NA} Not available. ^X Not applicable. ¹ Preliminary.² Includes fares paid to and from the United States only. ³ See footnote 6, table 313.

Source of tables 313-315: Dept. of Commerce, Office of Business Economics; Survey of Current Business.

Section 8

Labor Force, Employment, and Earnings

This section presents statistics dealing with the characteristics of the economically active segment of the population, the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor.

The chief sources of these data are the Decennial Census of Population conducted by the Bureau of the Census (see text, p. 1); the monthly *Employment and Earnings* and *Monthly Labor Review*, issued by the Bureau of Labor Statistics; and *Farm Labor*, issued monthly by the Statistical Reporting Service, Department of Agriculture.

Types of data.—Statistics shown in this section are of two types. One type is obtained by the "population approach" used by the Bureau of the Census in the Census of Population and the Current Population Survey (see below). This approach involves enumeration and interrogation either by interview or by mail to obtain information on employment activity from workers or members of workers' households. Each employed worker is counted only once, even though he may have held two or more jobs during a given period.

The second type of data is obtained by the "establishment approach," represented by the industry surveys of the Bureau of Labor Statistics and the surveys of the Department of Agriculture's Statistical Reporting Service. These data are based on reports from employers, i.e., farms, businesses, or industrial establishments. Such data as wages, hours worked, labor turnover, and industry affiliation of employees can be more accurately obtained from employers' records than from inquiries directed to a worker or a member of his household. Workers appearing on more than one payroll for the same time period are counted more than once in establishment statistics.

The Census of Population provides detailed data for the United States and for each State, city, and other area. It includes personal characteristics (sex, age, race, etc.) of the numbers employed and unemployed, the numbers reported in each occupation and industry, and other items. The labor force survey provides current data published in *Employment and Earnings* and in related publications series of the Bureau of Labor Statistics. Data presented include national totals, by sex, race, and age, of the number of persons in the civilian labor force, the number employed in nonagricultural industries and in agriculture, the number unemployed, and the number of nonworkers. Also provided are data on hours of work and broad occupation groups of those employed, duration of unemployment of the unemployed, and work experience and job-seeking intentions of those not in the labor force.

In addition, the Bureau of Labor Statistics, in *Employment and Earnings*, provides detailed monthly data from establishment surveys on nonagricultural employment, labor turnover, earnings, and hours worked. These data are shown for broad groupings in the *Monthly Labor Review*, which also presents statistics on wage rates, industrial relations, and output per man-hour. Certain of these data are shown for States and most standard metropolitan statistical areas (see text, p. 2). Historical statistics, in geographic detail, are shown in the Bureau of Labor Statistics Bulletin No. 1370-6, *Employment and Earnings, States and Areas, 1939-68*.

Current Population Survey.—Monthly data on the labor force are collected and compiled for the Bureau of Labor Statistics as a part of the Current Population Survey, a nationwide sample survey conducted by the Bureau of the Census. (See text, p. 1.) According to current computations, the relative sampling error for summary estimates

such as civilian labor force, total employment, and nonagricultural employment is about 0.3 percent; for agricultural employment and for unemployment, it is roughly 2 to 4 percent. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the percentage estimated above for the particular item. The chances are about 19 out of 20 that the difference would be less than twice the specified percentage and about 99 out of 100 that it would be less than 2½ times the percentage. This sampling variability is illustrative of the variability of data based on the Current Population Survey. For further details, see the explanatory notes in the Bureau of Labor Statistics *Employment and Earnings*.

Statistics obtained from the Current Population Survey may differ from decennial census data because of sampling variability as well as differences in the training and experience of enumerators and in the enumeration procedures. For further information, see *U.S. Census of Population: 1960*, Vol. I.

Labor force.—Effective in January 1967, the lower limit for official statistics on the labor force was raised from 14 to 16 years of age. Data on employment status, collected in the Current Population Survey, relate to activity or status during the calendar week which includes the 12th of the month. Employed persons comprise all persons who, during that week, did any work for pay or profit, worked 15 hours or more as unpaid workers in a family enterprise, or did not work but had jobs or businesses from which they were temporarily absent for noneconomic reasons. Unemployed persons comprise all persons not working during the survey week who had made specific efforts to find a job within the past 4 weeks and who were available for work, and persons who were on layoff from a job or waiting to report to a new job within 30 days. A detailed discussion of the survey and its methodology appears in *Concepts and Methods Used in Manpower Statistics From the Current Population Survey* (Report No. 313), available on request from the Bureau of Labor Statistics.

Labor force data collected in the 1960 census relate to the first or second week of April for the majority of the population. "Experienced civilian labor force" refers to employed workers and unemployed workers with previous work experience.

Employment and earnings.—The monthly estimates of nonagricultural employment prepared by the Bureau of Labor Statistics are based on voluntary reports from establishments which, in March 1968, employed 12 million manufacturing workers (64 percent of total manufacturing employment at that time), 10 million workers in non-manufacturing industries except government (27 percent of the total in nonmanufacturing industries), and 7 million Federal, State, and local government employees (62 percent of the total in government). These reports are supplemented by data from other government agencies and adjusted at intervals to data from tabulations of reports under government social insurance programs. The monthly estimates exclude persons not normally on establishment payrolls, such as proprietors of unincorporated businesses, self-employed persons, domestic servants, unpaid family workers, agricultural workers, and persons in the Armed Forces. The employment data are for all employees, whether full- or part-time, who received pay for any part of the period reported.

Estimates are available on a continuous basis from 1919 for total nonfarm payroll employment and the 8 major industry divisions. Estimates for other periods are available for several hundred selected industries. Both total employment and production-worker estimates are published for 21 major manufacturing groups, 254 manufacturing subgroups, and 11 mining industries. Also, estimates for nonsupervisory workers are published for individual wholesale trade, retail trade, public utility, and some finance and service industries; estimates for construction workers are published for the contract construction industries; and 402 series are published for the employment of women.

Average weekly hours and average weekly and hourly earnings are available for over 360 series covering production and related workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory workers in other selected nonmanufacturing industries. The earnings data are gross (before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received.

Agricultural employment estimates and wage rates, obtained by means of monthly mail returns, have been issued since 1909 by the Department of Agriculture and appear monthly in *Farm Labor*. Annual estimates of persons 14 years old and over who did farm work for cash wages at any time during the year are published in *The Hired Farm Working Force*. Also reported are days employed, earnings from farm and nonfarm work, personal characteristics of hired farm workers and other pertinent information. These estimates are derived from a survey conducted once a year under contract by the Bureau of the Census for the Economic Research Service.

Output per man-hour.—The Bureau of Labor Statistics prepares and publishes annual measures of output per man-hour according to two broad concepts. The first, physical output per man-hour, deals with the relationship between production in physical units and man-hours used in production; the second, net output per man-hour, with the relationship between value added (at fixed prices) and man-hours. Both indexes measure the relationship between production and one factor of input—labor time. They do not measure the specific contribution of labor or capital nor do they measure increased efficiency resulting from technological changes or changes in production procedures.

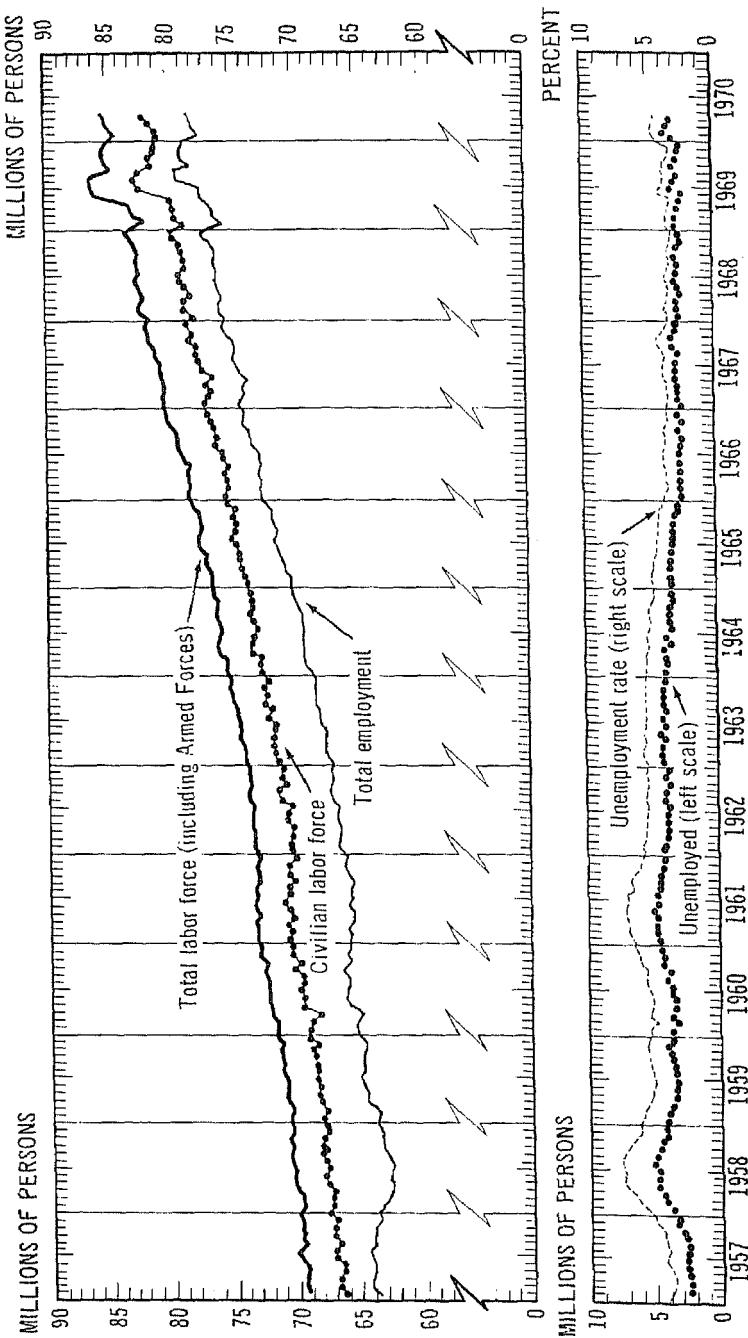
The indexes of output per man-hour for selected industries are based on the physical output per man-hour concept; measurements relating to the total economy and various sectors are based on the net output per man-hour concept. These indexes are influenced by the divergent movements of various industries which make up the total, as well as by changes in the relative importance of these components.

Labor turnover.—Labor turnover rates are published monthly in the *Monthly Labor Review* and in *Employment and Earnings* for over 220 industries on the basis of reports from cooperating establishments employing over 11 million workers (about 57 percent of the universe surveyed). Labor turnover data are available on a monthly basis from January 1930 for manufacturing as a whole. Labor turnover rates for individual industries and industry groups are available on a continuous basis only from January 1958.

Work stoppages.—Statistics on strikes are compiled by the Bureau of Labor Statistics and include stoppages, workers involved, and man-days of idleness. Basic data are obtained from the employers and unions involved in strikes. Knowledge of strikes comes from a variety of sources, including newspapers, State employment services, and State and Federal mediation services. The Bureau prepares annual reports published in the *Monthly Labor Review* and, later, in bulletin form, giving total figures for each month of the year and analyses of strikes by industry, State, city, causes, and other classifications.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XIV. TRENDS IN THE LABOR FORCE: 1957 TO 1970
[See table 316]



Source: Chart prepared by Dept. of Commerce, Bureau of the Census. Data for 1957-June 1958 from Bureau of the Census; thereafter, Dept. of Labor, Bureau of Labor Statistics.

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No. 316. EMPLOYMENT STATUS OF THE NONINSTITUTIONAL POPULATION, BY SEX AND RACE: 1950 TO 1970

[In thousands of persons 16 years old and over, except as noted. Prior to 1960, excludes Alaska and Hawaii. Annual figures are averages of monthly figures. See *Historical Statistics, Colonial Times to 1957*, series D 1-14 and D 20, for similar but not exactly comparable data]

YEAR OR MONTH, SEX, AND RACE	Total non- institu- tional popula- tion	LABOR FORCE						NOT IN LABOR FORCE				
		Total, includ- ing Armed Forces	Total	Per- cent of pop- ula- tion	Civilian labor force			Total ¹	Keep- ing house ²	In school ³		
					Employed		Unemployed					
TOTAL												
1950	106,645	68,868	62,208	58.3	58,920	7,160	51,760	3,288	5.3	42,737	33,058	6,197
1955	112,732	68,072	65,023	57.7	62,171	6,449	55,724	2,852	4.4	44,680	33,722	6,569
1960	119,759	72,142	69,628	58.1	65,778	5,458	60,318	3,852	5.5	47,617	34,543	8,162
1963	125,154	74,571	71,833	57.4	67,762	4,687	63,076	4,070	5.7	50,583	35,322	10,089
1964	127,224	75,830	73,091	57.5	69,305	4,523	64,782	3,788	5.2	51,394	36,454	10,510
1965	129,286	77,178	74,455	57.6	71,088	4,361	66,726	3,306	4.5	52,058	35,556	11,084
1966	131,180	78,893	75,770	57.8	72,895	3,079	68,915	2,875	3.8	52,288	35,316	11,148
1967	133,320	80,793	77,847	58.0	74,372	3,644	70,528	2,975	3.8	52,527	34,993	6,657
1968	135,562	82,272	78,737	58.1	75,920	3,817	72,103	2,817	3.6	53,201	35,204	6,900
1969	137,841	84,239	80,733	58.6	77,902	3,606	74,298	2,831	3.5	53,802	34,888	7,013
1970, Apr.	139,887	85,281	81,980	58.7	78,408	3,531	74,877	3,552	4.3	54,456	34,671	8,933
MALE												
1950	52,362	45,446	43,819	83.7	41,580	6,001	35,578	2,289	5.1	8,906	81	3,244
1955	65,122	47,488	44,475	80.7	42,621	6,265	37,387	1,854	4.2	7,634	76	3,313
1960	58,144	48,870	46,388	79.8	43,904	4,472	39,431	2,486	5.4	9,274	87	4,097
1963	60,627	49,836	47,129	77.7	44,657	3,809	40,849	2,472	5.2	10,792	136	5,077
1964	61,556	50,887	47,679	77.5	45,474	3,691	41,782	2,205	4.6	11,169	139	5,210
1965	62,473	50,946	48,255	77.2	46,340	3,547	42,792	1,914	4.0	11,527	143	5,617
1966	63,361	51,560	48,471	76.5	46,919	3,243	43,075	1,551	3.2	11,792	120	5,697
1967	64,316	52,398	48,987	76.2	47,479	3,164	44,315	1,508	3.1	11,919	142	3,926
1968	65,345	53,080	49,533	75.8	48,114	3,187	44,957	1,419	2.9	12,315	180	3,492
1969	68,365	53,688	50,221	75.7	48,818	2,963	45,854	1,408	2.8	12,677	199	3,570
1970, Apr.	67,183	53,899	50,687	75.4	48,686	2,979	45,708	1,981	3.9	13,284	225	4,493
Negro and other:³												
1955	45,826	(NA)	4,358	81.8	4,001	710	3,290	357	8.2	968	(NA)	(NA)
1960	45,952	(NA)	4,728	70.4	4,220	657	3,563	508	10.7	1,223	(NA)	(NA)
1963	46,335	(NA)	4,802	75.8	4,203	527	3,766	509	10.6	1,533	(NA)	(NA)
1964	46,439	(NA)	4,871	75.6	4,420	497	3,932	443	9.1	1,568	18	639
1965	46,870	(NA)	4,945	75.2	4,568	493	4,075	377	7.6	1,631	23	680
1966	46,688	(NA)	4,983	74.5	4,655	392	4,284	328	6.8	1,703	18	719
1967	6,608	5,253	4,945	74.9	4,646	361	4,285	299	6.0	1,363	19	429
1968	6,755	5,322	4,979	73.7	4,702	343	4,850	277	5.6	1,434	25	453
1969	6,918	5,404	5,036	72.8	4,770	309	4,461	266	5.3	1,513	34	480
1970, Apr.	7,054	5,414	5,092	72.2	4,750	290	4,469	342	6.7	1,639	45	633
FEMALE												
1950	54,283	18,412	18,389	33.9	17,340	1,159	16,182	1,049	5.7	35,881	32,977	2,054
1955	67,610	20,584	20,548	35.7	19,550	1,184	18,387	998	4.9	37,026	33,646	3,256
1960	61,615	23,272	23,240	37.7	21,874	986	20,887	1,306	5.9	38,343	34,456	4,065
1963	64,527	24,736	24,704	38.3	23,105	22,227	1,598	6.5	39,791	35,185	5,021	
1964	65,668	25,443	25,412	38.7	23,831	832	23,000	1,581	6.2	40,225	35,316	5,291
1965	66,768	26,232	26,200	39.2	24,748	814	23,934	1,452	5.5	40,531	35,413	5,677
1966	67,829	27,393	27,299	40.2	26,976	736	25,240	1,324	4.8	40,496	35,195	5,551
1967	69,003	28,395	28,360	41.1	26,893	680	26,212	1,468	5.2	40,608	34,851	3,331
1968	70,217	29,242	29,204	41.6	27,808	660	27,147	1,397	4.8	40,976	35,023	3,408
1969	71,476	30,551	30,512	42.7	29,084	643	28,441	1,428	4.7	40,994	34,888	3,443
1970, Apr.	72,504	31,332	31,293	43.2	29,722	553	29,169	1,371	5.0	41,172	34,446	4,439
Negro and other:³												
1955	46,069	(NA)	2,697	44.4	2,495	310	2,185	202	7.5	3,372	(NA)	(NA)
1960	46,726	(NA)	3,116	46.3	2,821	277	2,544	295	9.5	3,610	(NA)	(NA)
1963	47,271	(NA)	3,818	45.8	2,941	221	2,720	376	11.3	3,954	(NA)	(NA)
1964	47,437	(NA)	3,421	46.0	3,052	190	2,861	369	10.8	4,018	2,970	700
1965	47,509	(NA)	3,503	46.0	3,179	181	2,998	324	9.8	4,106	3,017	765
1966	47,784	(NA)	3,634	46.7	3,313	136	3,177	321	8.8	4,160	3,001	700
1967	5,479	3,706	3,704	49.5	3,366	104	3,262	338	9.1	3,773	2,967	455
1968	7,670	3,784	3,780	49.8	3,467	90	3,377	313	8.3	3,886	3,041	467
1969	7,877	3,922	3,918	49.7	3,614	78	3,536	304	7.8	3,955	3,044	511
1970, Apr.	8,055	3,990	3,996	49.6	3,646	40	3,606	349	8.7	4,056	3,013	675

NA Not available. ¹ Includes "other", not shown separately. ² 1950-1960, persons 14 years old and over.

³ Excludes white. ⁴ Civilian noninstitutional population.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

No. 317. LABOR FORCE AND PARTICIPATION RATES, 1960 TO 1969, AND PROJECTIONS TO 1985, BY RACE, SEX, AND AGE

[In thousands of persons 16 years old and over, except percent. Annual averages. Rate is based on total population as of July 1 and represents the proportion of each age group in the labor force (employed, unemployed, or in the Armed Forces). Projections based on trends in labor force participation rates between 1947 and 1968]

RACE, SEX, AND AGE	TOTAL LABOR FORCE						PARTICIPATION RATES (percent)					
	1960 ¹	1965	1969	1975	1980	1985	1960 ¹	1965	1969	1975	1980	1985
Total.....	72,104	77,177	84,239	92,792	100,727	107,156	59.2	58.8	60.2	60.1	60.5	60.8
White.....	64,210	68,627	74,912	82,101	88,634	93,738	58.8	58.5	58.6	60.0	60.3	60.6
Male.....	44,119	45,862	48,283	52,518	56,374	59,616	82.6	80.4	76.2	79.4	79.4	79.8
Female.....	20,091	22,765	26,629	29,683	32,260	34,122	36.0	37.7	41.3	41.8	42.6	42.7
Negro and other.....	7,894	8,551	9,326	10,691	12,093	13,418	63.0	62.1	61.5	61.4	61.6	62.0
Male.....	4,814	5,084	5,404	6,358	7,238	8,102	80.1	77.4	75.2	77.0	77.5	78.7
Female.....	3,080	3,407	3,922	4,333	4,855	5,316	47.2	48.1	40.2	47.4	47.1	46.9
Male.....	48,933	50,946	53,688	58,876	63,612	67,718	82.4	80.1	79.4	79.1	79.2	79.0
16-19 years.....	3,162	3,838	4,282	4,782	4,895	4,373	58.6	55.7	57.6	56.8	56.7	56.4
16 and 17 years.....	1,322	1,577	1,800	1,993	2,015	1,882	45.9	44.1	47.0	46.9	47.5	47.0
18 and 19 years.....	1,840	2,254	2,482	2,789	2,880	2,491	73.1	68.3	68.7	66.8	65.7	65.2
20-24 years.....	4,939	5,926	7,088	8,124	8,795	8,806	88.9	86.2	85.3	83.4	83.0	82.5
25-34 years.....	10,940	10,653	11,706	15,100	17,815	19,601	96.4	96.0	95.4	96.0	96.1	96.0
35-44 years.....	11,454	11,604	10,946	10,650	12,086	15,020	96.4	96.2	95.7	96.1	96.1	96.1
45-54 years.....	9,568	10,131	10,432	10,668	10,082	9,921	94.3	94.3	98.2	94.0	94.0	94.0
55-64 years.....	6,445	6,768	7,002	7,512	7,849	7,852	85.2	83.2	81.8	81.1	80.6	79.0
65 years and over.....	2,425	2,131	2,170	2,042	2,090	2,145	32.2	28.9	26.2	23.1	22.0	21.1
Female.....	23,171	26,232	30,551	33,916	37,115	39,438	37.1	38.8	42.2	42.5	43.0	43.2
16-19 years.....	2,061	2,620	3,109	3,375	3,449	3,066	39.1	37.7	43.1	41.2	41.5	41.0
16 and 17 years.....	801	954	1,240	1,280	1,274	1,190	28.6	27.5	33.4	31.0	31.2	31.5
18 and 19 years.....	1,260	1,665	1,869	2,095	2,175	1,876	51.0	48.6	53.3	51.6	51.4	50.9
20-24 years.....	2,558	3,375	4,015	5,438	5,991	5,997	48.1	49.7	50.5	56.9	57.6	57.7
25-34 years.....	4,159	4,236	5,401	6,089	8,427	9,431	35.8	38.5	43.5	44.4	45.7	46.5
35-44 years.....	5,325	5,724	5,905	5,802	6,708	8,397	43.1	45.9	40.7	51.0	52.4	53.3
45-54 years.....	5,180	5,714	6,388	6,568	6,259	6,155	49.3	50.5	53.3	53.9	54.8	55.2
55-64 years.....	2,984	3,687	4,077	4,677	5,103	5,134	36.7	40.6	42.6	44.3	46.2	45.0
65 years and over.....	954	976	1,056	1,087	1,178	1,268	10.5	9.5	9.4	8.8	8.7	8.5

¹ Based on revised population estimates; differ from figures in tables 316 and 310.

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review*, May 1970, and *Labor Force Projections to 1985*.

No. 318. LABOR FORCE, EMPLOYMENT, AND UNEMPLOYMENT—SELECTED AREAS: 1968 AND 1969

[In millions of persons 16 years old and over, except percent]

AREA	1968						1969					
	Civilian labor force	Em- ployed	Percent unemployed			Civilian labor force	Em- ployed	Percent unemployed			Civilian labor force	Em- ployed
			Total	White	Negro and other			Total	White	Negro and other		
United States, total.....	78.7	75.9	3.6	3.2	6.7	80.7	77.9	3.5	3.1	6.4	81.1	78.3
All SMSA's ¹	51.5	49.6	3.6	3.2	6.6	53.0	51.1	3.5	3.1	6.2	54.2	52.3
With 250,000 inhabitants or more	44.2	42.6	3.6	3.1	5.5	45.4	43.8	3.5	3.1	6.0	47.1	45.2
Urban poverty neighborhoods.....	6.5	6.1	6.0	5.0	7.3	6.3	6.0	5.5	4.2	7.2	6.7	6.2
Other urban neighborhoods.....	37.7	36.5	3.2	2.9	5.7	39.0	37.8	3.1	2.5	5.0	41.3	39.0
20 largest metropolitan areas ²	26.0	25.1	3.4	3.0	6.4	28.6	25.7	3.4	3.0	5.9	29.1	27.2
Central cities.....	11.9	11.4	4.1	3.4	6.3	11.9	11.4	3.9	3.2	6.2	12.5	11.7
Suburban rings.....	14.1	13.7	2.9	2.7	6.5	14.7	14.3	3.0	2.9	5.0	13.6	12.5
With less than 250,000 inhabitants.....	7.8	7.1	3.7	3.3	8.1	7.6	7.3	3.8	3.4	7.9	8.0	7.7
Nonmetropolitan areas.....	27.3	26.3	3.6	3.2	7.0	27.8	26.8	3.5	3.2	6.8	28.0	27.0
Nonfarm.....	23.3	22.4	3.9	3.5	7.6	23.9	23.0	3.8	3.5	7.0	24.1	23.2
Farm.....	4.0	3.9	1.6	1.5	3.6	3.9	3.8	1.6	1.3	5.4	4.0	3.8

¹ For definition of standard metropolitan statistical areas, see text, p. 2. ² Based on 1960 definitions.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*, and *Monthly Labor Review*.

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No. 319. LABOR FORCE—PERCENT DISTRIBUTION, BY SEX AND AGE: 1950 TO 1969

[Prior to 1960, excludes Alaska and Hawaii. Includes Armed Forces abroad. See headnote, table 316. See also *Historical Statistics, Colonial Times to 1957*, series D 13-26, for similar but not exactly comparable data]

AGE	TOTAL					MALE				FEMALE			
	1950	1955	1960	1965	1969	1955	1960	1965	1969	1955	1960	1965	1969
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16-19 years	7.1	6.7	7.3	8.2	8.8	5.9	6.5	7.5	8.0	8.4	8.9	9.6	10.2
20-24 years	12.4	10.7	10.6	12.1	13.9	10.2	10.4	11.6	13.2	11.9	11.1	12.9	15.1
25-34 years	23.7	23.1	20.9	19.4	20.3	24.1	22.4	20.9	21.8	20.7	17.8	16.5	17.7
35-44 years	22.1	23.0	23.1	22.3	20.0	22.8	23.2	22.6	20.4	23.4	22.8	21.8	19.3
45-54 years	18.0	19.1	20.7	20.5	20.0	18.7	19.7	19.9	19.4	20.2	22.7	21.8	20.9
55-64 years	12.0	12.5	13.0	13.4	13.2	12.9	13.1	13.8	13.2	11.6	12.8	13.7	13.3
65 and over	4.8	4.9	4.4	4.0	3.8	5.3	4.7	4.2	4.0	3.8	3.9	3.7	3.5

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

No. 320. CIVILIAN LABOR FORCE AND UNEMPLOYMENT, BY RACE—REGIONS AND 10 LARGEST STATES: 1968

[Covers persons 16 years old and over. Annual averages based on information collected by Bureau of the Census as part of the Current Population Survey; see text, p. 1. For composition of regions, see fig. I, p. xii]

RACE, REGION, AND STATE	Civilian labor force ¹ (1,000)	Participation rates ²	UNEMPLOYMENT		RACE, REGION, AND STATE	Civilian labor force ¹ (1,000)	Participation rates ²	UNEMPLOYMENT	
			Number ³ (1,000)	Rate ⁴				Number ³ (1,000)	Rate ⁴
United States	78,740	59.6	2,815	3.6	North Central—Con. E. N. C.—Con.				
White	60,980	59.3	2,225	3.2	Michigan	3,420	59.9	135	3.9
All other	8,760	62.2	690	6.7	White	3,060	50.8	105	3.4
Northeast	19,570	58.9	620	3.2	All other	360	60.1	30	8.2
White	17,980	58.5	530	3.0	West North Central	6,330	60.4	155	2.4
All other	1,590	63.9	90	5.7	White	6,060	60.3	135	2.2
New England	4,950	61.7	145	2.9	All other	270	63.4	20	0.8
White	4,800	61.5	140	2.9	South	23,430	59.4	880	3.7
All other	150	68.4	5	4.5	White	19,030	58.9	590	3.1
Massachusetts	2,230	60.5	65	2.9	All other	4,350	61.6	290	6.6
White	2,150	60.4	60	2.8	South Atlantic	11,770	60.0	420	3.6
All other	80	63.3	(B)	(B)	White	9,320	59.0	275	2.9
Middle Atlantic	14,620	60.5	475	3.3	All other	2,450	64.2	150	6.0
White	13,180	60.4	395	3.0	Florida	2,260	54.9	85	3.8
All other	1,440	61.5	85	5.8	White	1,920	55.4	65	3.3
New York	7,230	57.9	230	3.1	All other	340	65.1	20	6.0
White	6,500	57.6	195	3.0	East South Central	4,780	57.9	200	4.2
All other	740	62.2	30	4.3	White	3,990	58.4	140	3.6
Pennsylvania	4,680	57.1	155	3.4	All other	800	55.4	60	7.5
White	4,240	56.6	125	3.0	West South Central	6,870	59.3	255	3.7
All other	390	62.7	30	7.3	White	5,780	59.0	175	3.0
New Jersey	2,870	59.7	95	3.3	All other	1,100	61.0	80	7.4
White	2,550	58.8	70	2.8	Texas	4,300	61.2	145	3.4
All other	320	67.7	25	7.3	White	3,700	60.6	110	2.9
North Central	22,610	60.5	830	3.0	All other	600	65.4	35	0.0
White	20,920	60.4	545	2.6	West	13,160	59.9	645	4.9
All other	1,690	61.5	135	8.0	White	12,000	59.5	565	4.7
East North Central	16,280	60.5	525	3.2	All other	1,150	63.6	80	6.8
White	14,860	60.4	410	2.8	Mountain	2,920	59.5	125	4.4
All other	1,420	61.1	115	8.2	White	2,800	59.5	120	4.2
Illinois	4,490	61.1	130	2.9	All other	120	59.7	10	7.8
White	4,020	61.4	95	2.3	Pacific	10,240	59.9	520	5.1
All other	460	58.0	35	7.7	White	9,210	59.5	450	4.9
Ohio	4,160	59.0	145	3.4	All other	1,030	64.0	70	6.7
White	3,790	58.7	110	2.9	California	7,570	59.9	390	5.1
All other	370	62.5	35	9.1	White	6,810	59.4	330	4.8
					All other	760	64.5	60	7.9

B. Not computed; unemployment estimate less than 5,000.

¹ Figures rounded to nearest 10,000. ² Percent of each group in civilian labor force.

³ Figures rounded to nearest 5,000. ⁴ Percent of civilian labor force.

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review*, January 1970.

No. 321. UNEMPLOYED, PART-TIME EMPLOYED, AND UNEMPLOYMENT INSURANCE—
SUMMARY: 1955 TO 1970

[Persons 16 years old and over. Prior to 1960, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series D 46 and 47, for total unemployed and rate]

SUBJECT	1955	1960	1965	1966	1967	1968	1969	1970, April
Total, unemployed.....	1,000	2,852	3,852	3,366	2,875	2,975	2,817	2,831
Labor force time lost ¹	percent	24.8	6.7	5.0	4.2	4.2	4.0	5.1
Male.....	1,000	1,854	2,486	1,914	1,551	1,508	1,419	1,403
Female.....	1,000	998	1,366	1,452	1,324	1,468	1,397	1,428
Race:								
White.....	1,000	2,248	3,063	2,691	2,253	2,338	2,226	2,261
Negro and other.....	1,000	601	787	676	621	638	590	570
Age and sex:								
16-19 years.....	1,000	450	711	874	836	838	839	853
Percent of total unemployed.....		15.8	18.5	26.0	20.1	28.2	29.8	30.1
White.....	1,000	(NA)	(NA)	(NA)	651	635	644	680
Negro and other.....	1,000	(NA)	(NA)	(NA)	185	204	195	180
Male.....	1,000	274	426	470	432	448	427	441
Female.....	1,000	176	286	396	404	391	412	412
20-24 years.....	1,000	396	583	557	445	512	543	560
Percent of total unemployed.....		13.9	15.1	16.5	15.5	17.2	19.3	19.8
Male.....	1,000	248	369	311	221	235	258	270
Female.....	1,000	148	214	246	224	277	285	200
25-44 years.....	1,000	1,098	1,423	1,070	865	902	813	810
Percent of total unemployed.....		38.5	36.9	32.0	30.1	30.3	28.9	28.6
Male.....	1,000	681	907	577	457	404	376	360
Female.....	1,000	417	516	499	408	498	437	450
45-64 years.....	1,000	791	1,009	758	636	641	534	538
Percent of total unemployed.....		27.7	26.2	22.5	22.1	21.5	19.0	21.5
Male.....	1,000	550	686	474	377	363	297	284
Female.....	1,000	241	323	284	269	278	236	252
65 years and over.....	1,000	120	121	102	92	86	88	72
Percent of total unemployed.....		4.2	3.1	3.0	3.2	2.9	2.8	2.5
Unemployment rate (percent): ³								
All workers.....		4.4	5.5	4.5	3.8	3.8	3.6	3.5
White.....		3.9	4.0	4.1	3.3	3.4	3.2	3.1
Male.....		8.7	4.8	3.6	2.8	2.7	2.6	2.5
Female.....		4.3	5.3	5.0	4.3	4.6	4.3	4.5
Negro and other.....		8.7	10.2	8.1	7.3	7.4	6.7	7.6
Male.....		8.8	10.7	7.4	6.3	6.0	5.6	5.3
Female.....		8.4	9.4	9.2	8.6	9.1	8.3	7.8
Ratio, nonwhite to white.....		2.2	2.1	2.0	2.2	2.2	2.1	1.9
Blue-collar workers.....		(NA)	(NA)	(NA)	(NA)	4.4	4.1	3.9
White-collar workers.....		(NA)	(NA)	(NA)	(NA)	2.2	2.0	2.1
Experienced wage and salary workers.....		(NA)	(NA)	(NA)	(NA)	3.6	3.4	3.3
Married men, wife present.....		(NA)	(NA)	(NA)	(NA)	1.8	1.6	1.5
White.....		(NA)	(NA)	(NA)	(NA)	1.7	1.5	1.4
Negro and other.....		(NA)	(NA)	(NA)	(NA)	3.2	2.9	2.5
Percent without work for—								
4 weeks or less.....		46.8	44.0	48.4	53.4	54.9	56.6	57.5
5-10 weeks.....		21.0	21.4	21.0	20.8	22.6	21.8	22.1
11-14 weeks.....		7.6	9.2	8.2	7.2	7.3	7.0	7.1
15-26 weeks.....		12.9	13.0	12.0	10.3	9.1	9.1	8.5
Over 26 weeks.....		11.8	11.8	10.4	8.4	5.9	5.5	4.7
Average duration of unemployment.....wks		(NA)	(NA)	(NA)	(NA)	8.8	8.5	7.9
Part-time employed ⁴	1,000	(NA)	(NA)	(NA)	1,894	2,163	1,970	2,055
Unemployment insurance: ⁵								
Weekly insured unemployment, avg. ⁶1,000		1,254	1,908	1,328	1,061	1,205	1,111	1,101
Percent of covered employment ⁶		3.5	4.8	3.0	2.3	2.5	2.2	2.1
Initial claims (weekly average) ⁷1,000		226	331	232	203	228	201	200
Claimants exhausting benefits ⁸1,000		1,272	1,603	1,086	781	867	848	812
Percent of first payment beneficiaries.....		28.2	23.7	22.6	18.9	19.3	19.6	19.8
Average actual duration of benefits.....wks		12.4	12.7	12.2	11.2	11.4	11.6	11.4

NA. Not available. X. Not applicable. ¹ Man-hours lost by the unemployed and persons on part-time for economic reasons as a percent of potentially available labor force man-hours. ² Average of 8 months.

³ Percent of civilian labor force in specified group. ⁴ Persons who work less than 35 hours during survey week for economic reasons, such as slack work, material shortages or repairs, new job started, job terminated, or only part-time work found. Excludes persons with a job but not at work because of vacation, illness, bad weather, or industrial dispute. ⁵ Source: Dept. of Labor, Manpower Administration, State programs only; excludes programs for Federal employees and for ex-servicemen; includes unemployment compensation for State and local government employees where covered by State law. ⁶ Workers reporting completion of at least 1 week of unemployment. ⁷ Notices filed by workers to indicate they are starting periods of unemployment. Excludes transitional claims. ⁸ Includes temporary extended benefit exhaustions.

Source: Dept. of Labor, Bureau of Labor Statistics; annual report, *Handbook of Labor Statistics* and monthly report, *Employment and Earnings*, except as noted.

Unemployment—Nonagricultural Job Openings

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No. 322. UNEMPLOYMENT—STATES: 1967 TO 1969

[In thousands of persons 16 years old and over, except percent.]

STATE	NUMBER			PERCENT		STATE	NUMBER			PERCENT	
	1967	1968	1969	1968	1969		1967	1968	1969	1968	1969
Ala.	55	58	50	4.5	3.9	Mo.	68	68	67	3.4	3.2
Alaska	8	9	9	9.1	8.7	Mont.	13	13	12	4.7	4.5
Ariz.	24	19	22	3.6	2.9	Nebr.	16	15	15	2.4	2.2
Ark.	31	30	30	4.2	4.2	Nev.	12	11	10	5.0	4.4
Calif.	389	366	372	4.5	4.4	N.H.	6	7	5	1.8	2.3
Colo.	26	25	26	3.0	3.0	N.J.	128	133	134	4.6	4.4
Conn.	43	60	52	3.7	3.8	N. Mex.	18	18	18	5.1	4.9
Del.	8	7	7	3.1	3.1	N.Y.	315	285	290	3.5	3.5
D.C. ¹	26	27	29	2.2	2.3	N.C.	71	68	65	3.2	2.9
Fla.	58	70	67	2.8	2.5	N. Dak.	10	10	10	4.1	3.9
Ge.	60	61	55	3.3	2.9	Ohio	135	128	128	2.9	2.7
Hawaii	10	9	9	2.9	2.7	Oklahoma	94	95	95	3.5	3.4
Idaho	13	12	12	4.3	4.0	Oreg.	41	39	40	4.4	4.4
Ill.	160	148	148	3.0	2.9	Pa.	165	156	149	3.2	2.9
Ind.	66	67	58	3.2	2.7	R.I.	14	14	14	3.6	3.7
Iowa	29	30	32	2.4	2.6	S.C.	47	45	42	4.3	4.0
Kans.	24	23	26	2.7	3.0	S. Dak.	8	8	8	3.0	2.8
Ky.	48	45	42	3.9	3.6	Tenn.	64	60	58	3.6	3.5
La.	63	65	69	4.8	5.1	Tex.	120	117	123	2.7	2.7
Maine	15	16	19	4.1	4.6	Utah	20	22	21	5.2	5.2
Md.	42	45	44	3.2	3.0	Vt.	7	7	6	3.6	3.2
Mass.	101	102	98	4.1	3.8	Va.	48	48	49	2.7	2.7
Mich.	164	151	145	4.3	4.1	Wash.	56	59	68	4.3	4.8
Minn.	49	51	48	3.2	2.9	W. Va.	40	40	35	5.5	6.4
Miss.	88	86	84	4.5	4.2	Wis.	65	64	64	3.4	3.4
						Wyo.	5	5	6	3.9	4.1

¹ Represents Washington, D.C., Standard Metropolitan Statistical Area.

Source: Dept. of Labor, Manpower Administration. In annual report, *Manpower Report of the President*.

No. 323. NONAGRICULTURAL JOB OPENINGS AND PLACEMENTS: 1950 TO 1970

[In thousands, except as indicated. Includes Puerto Rico, Guam, and Virgin Islands]

ITEM	1950	1955	1960	1965	1967	1968	1969	1970, Apr.
Nonfarm job openings:								
Registered	7,202	7,702	7,124	8,690	8,092	8,096	7,463	580
Average per month	600	642	594	724	674	675	622	580
Unfilled, average per month	174	199	186	305	359	375	360	297
Nonfarm placements	5,625	6,082	5,818	6,473	5,817	5,733	5,153	351
Index of help wanted advertising in newspapers ² (1957-59 = 100)	(NA)	111	104	157	186	206	227	186

NA. Not available.

¹ Represents entry of a worker on a job as a direct result of service activities of public employment offices.

² Source: National Industrial Conference Board, Inc., New York. Covers advertisements published in classified sections of leading newspapers; excludes those in other sections. Index based on number of advertisements rather than number of jobs advertised.

Source: Dept. of Labor, Manpower Administration; unpublished data, except as indicated.

No. 324. PERSONS WITH A JOB BUT NOT AT WORK: 1950 TO 1970

[In thousands of persons 14 years old and over through 1965; thereafter, 16 years old and over. Prior to 1960 excludes Alaska and Hawaii. See headnote, table 318.]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969	1970, Apr.
All industries, number	2,440	2,682	3,231	3,525	3,595	3,831	4,206	4,408	3,040
Percent of employed	4.1	4.3	4.8	4.9	4.9	5.2	5.5	5.7	3.9
Agriculture	220	184	180	157	181	130	147	130	110
Nonagricultural industries	2,219	2,497	3,042	3,368	3,463	3,701	4,059	4,277	2,930
Reason for not working, all industries:									
Bad weather	151	103	168	79	91	92	158	123	105
Industrial dispute	85	61	40	48	66	107	109	111	214
Vacation	1,137	1,268	1,576	1,738	1,753	1,974	2,180	2,298	818
Illness	718	835	942	1,039	1,089	1,102	1,208	1,268	1,282
All others	349	416	505	621	646	557	550	618	622

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*, and unpublished data.

No. 325. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS: 1950 TO 1970

[**Number in thousands.** Prior to 1960, excludes Alaska and Hawaii. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, self-employed persons, farmworkers, unpaid family workers, domestic servants, and Armed Forces. Data are annual averages adjusted to March 1968 benchmark levels indicated by data from government social insurance programs. See *Historical Statistics, Colonial Times to 1967*, series D 48-66, for related date]

ITEM	NONAGRICULTURAL ESTABLISHMENTS								GROUPED INDUSTRIES	
	Total	Manufacturing	Whole-sale and retail trade	Government	Services	Transportation and public utilities	Finance, insurance, and real estate	Contract construction	Mining	Goods related
NUMBER										
1950	45,232	15,241	9,886	6,026	5,382	4,034	1,919	2,333	901	22,500
1955	50,675	16,882	10,635	6,914	6,274	4,141	2,335	2,802	702	24,617
1960	54,234	16,796	11,391	8,353	7,423	4,004	2,669	2,885	712	24,397
1965	60,815	18,062	12,716	10,074	9,087	4,036	3,023	3,186	632	25,016
1966	63,955	19,214	13,245	10,792	9,551	4,151	3,100	3,275	627	27,267
1967	65,857	19,447	13,606	11,398	10,090	4,261	3,225	3,208	613	27,529
1968	67,860	19,768	14,081	11,846	10,592	4,313	3,383	3,267	610	27,958
1969	70,141	20,121	14,644	12,227	11,103	4,448	3,569	3,411	628	28,608
April	69,402	19,952	14,398	12,274	11,044	4,403	3,517	3,255	619	28,229
1970, April ²	70,582	19,564	14,778	12,800	11,430	4,441	3,667	3,270	623	27,898
PERCENT DISTRIBUTION										
1950	100.0	33.7	20.8	13.3	11.9	8.9	4.2	5.2	2.0	49.8
1955	100.0	33.3	20.8	13.6	12.4	8.2	4.6	5.5	1.6	48.6
1960	100.0	31.0	21.0	15.4	13.7	7.4	4.9	5.3	1.3	45.0
1965	100.0	29.7	20.9	16.6	14.9	6.6	5.0	5.2	1.0	42.6
1966	100.0	30.0	20.7	16.9	14.9	6.5	4.8	5.1	1.0	42.6
1967	100.0	29.5	20.7	17.3	15.3	6.5	4.9	4.9	0.9	41.8
1968	100.0	29.1	20.8	17.5	15.6	6.4	5.0	4.8	0.9	41.2
1969	100.0	28.7	20.9	17.4	15.8	6.3	5.1	4.9	0.9	40.8
April	100.0	28.7	20.7	17.8	15.9	6.3	5.1	4.7	0.9	40.6
1970, April ²	100.0	27.7	21.0	18.1	16.2	6.3	5.2	4.6	0.9	39.5

¹ Includes mining, construction, manufacturing, transportation, and public utilities.

² Preliminary.

No. 326. CIVILIANS EMPLOYED, BY HOURS WORKED: 1950 TO 1969

[In thousands of persons 14 years old and over through 1965; thereafter, 16 years old and over. During the survey week in May. Prior to 1960, excludes Alaska and Hawaii]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969
Employed, nonagricultural industries ¹	51,445	55,536	61,371	67,278	68,525	70,528	72,103	74,296
Worked 1-14 hours	1,949	2,440	3,573	4,403	3,545	3,531	3,597	3,736
Worked 15-34 hours	5,149	5,618	7,203	7,563	8,209	9,758	11,188	11,474
Worked 35 or more hours	43,033	46,882	48,594	53,008	54,378	53,530	53,258	54,800
Percent of total	83.6	82.5	79.2	78.8	79.4	75.0	73.9	73.8
Employed in agriculture ¹	8,036	6,945	5,837	5,128	4,096	3,844	3,817	3,606
Worked 35 or more hours	5,070	5,176	4,120	3,475	2,781	2,594	2,528	2,375
Percent of total	74.3	74.5	70.7	67.8	67.9	67.5	66.2	65.9

¹ Includes persons who had a job or business, but did not work at all during entire survey week because of illness, bad weather, vacation, industrial dispute, or various personal reasons, not shown separately.

No. 327. LABOR TURNOVER RATES IN MANUFACTURING: 1950 TO 1969

[**Rates per 100 employees.** Prior to 1960 excludes Alaska and Hawaii. Data refer to wage and salary workers. Beginning 1960, transfers between establishments of the same firm are included in total accessions and total separations; therefore, rates for these items are not strictly comparable with prior data. See *Historical Statistics, Colonial Times to 1967*, series D 779-784, for related but not comparable data]

ITEM	1950	1955	1960	1965	1966	1967	1968	1969
Accessions ¹	5.3	4.5	3.8	4.3	5.0	4.4	4.6	4.7
New hires	(NA)	3.0	2.2	3.1	3.8	3.3	3.5	3.7
Separations ²	4.1	3.9	4.3	4.1	4.6	4.6	4.6	4.9
Quits	2.3	1.9	1.8	1.9	2.6	2.3	2.5	2.7
Layoffs	1.3	1.5	2.4	1.4	1.2	1.4	1.1	1.2

NA Not available.

¹ Includes rehires.

² Includes discharges and military and miscellaneous separations.

Source of tables 325-327: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

Nonagricultural Employment

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No. 328. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS, ANNUAL AVERAGES— STATES: 1960, 1965, AND 1969

[In thousands. For coverage, see headnote, table 325. National totals differ from the sum of the State figures because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification]

STATE	TOTAL			INDUSTRY, 1969							
	1960	1965	1969	Manufacturing	Whole-sale and retail trade	Government	Services	Transportation and public utilities	Finance, insurance, and real estate	Contract construction	Mining
U.S.	54,284	60,815	70,141	20,121	14,644	12,227	11,103	4,448	3,559	3,411	628
N.E.:¹											
Maine	278	295	330	118	64	65	41	17	12	15	(1)
N.H.	201	221	258	98	49	35	41	11	10	13	(2)
Vt.	108	121	145	44	27	24	27	8	5	10	1
Mass.	1,910	2,019	2,239	682	474	296	453	115	125	94	(1)
R.I.	202	317	343	127	68	63	53	15	15	14	(1)
Conn.	915	1,083	1,195	475	218	148	176	53	70	56	(2)
M.A.:²											
N.Y.	6,182	6,519	7,181	1,874	1,438	1,175	1,330	500	595	282	8
N.J.	2,017	2,256	2,582	897	517	356	400	178	115	118	3
Pa.	3,713	3,914	4,370	1,581	816	609	670	267	184	203	39
E.N.C.:³											
Ohio	3,147	3,384	3,891	1,468	761	645	544	222	152	180	20
Ind.	1,481	1,631	1,871	747	363	288	203	100	74	89	7
Ill.	3,522	3,864	4,368	1,404	945	612	671	280	229	196	23
Mich.	2,361	2,687	3,064	1,170	583	520	400	150	114	114	13
Wis.	1,192	1,332	1,521	518	323	255	217	80	59	67	3
W.N.C.:⁴											
Minn.	960	1,082	1,298	330	307	222	206	88	62	68	14
Iowa	681	755	880	225	205	173	142	51	41	41	3
Mo.	1,345	1,473	1,668	459	373	282	257	126	89	73	9
N. Dak.	126	146	158	9	48	49	29	12	7	8	2
S. Dak.	142	155	171	16	45	53	30	10	7	8	2
Nebr.	381	416	471	86	118	97	79	37	28	26	2
Kans.	559	599	684	146	167	161	101	52	30	36	12
S.A.:⁵											
Del.	154	184	208	73	48	30	29	11	9	13	(1)
Md.	896	1,060	1,277	281	293	245	227	79	66	85	2
D.C.	536	619	681	20	85	380	134	31	32	18	(1)
Va.	1,018	1,219	1,434	370	295	293	208	95	65	94	14
W. Va.	460	477	513	181	93	95	64	41	15	26	47
N.C.	1,198	1,431	1,735	713	309	254	201	90	67	97	4
S.C.	583	686	812	339	135	140	83	35	28	49	2
Ga.	1,051	1,267	1,522	477	320	285	177	103	72	82	7
Fla.	1,321	1,619	2,079	329	539	379	387	148	124	165	8
E.S.C.:⁶											
Ky.	654	759	895	247	181	167	123	60	35	55	27
Tenn.	926	1,109	1,312	470	255	214	176	66	50	68	7
Ala.	778	887	999	324	186	205	127	56	41	64	8
Miss.	404	485	569	182	104	129	66	30	20	33	6
W.S.C.:⁷											
Ark.	367	455	532	168	105	101	72	32	21	30	5
La.	790	906	1,044	181	228	207	151	93	49	83	52
Okla.	582	648	754	180	165	185	108	53	36	37	40
Tex.	2,532	2,925	3,611	749	853	651	585	252	184	232	105
Mt.:⁸											
Mont.	167	181	197	24	47	52	32	18	8	10	6
Idaho	155	178	199	40	47	47	31	14	8	10	4
Wyo.	97	97	107	7	24	28	15	11	4	7	12
Colo.	515	593	709	114	168	165	123	51	37	38	13
N. Mex.	236	268	285	20	60	86	64	20	12	17	17
Ariz.	334	404	514	93	117	113	85	28	27	32	18
Utah	266	301	348	64	78	99	54	23	14	14	12
Nev.	103	157	180	8	36	36	75	13	7	11	4
Pac.:⁹											
Wash.	813	897	1,125	279	247	238	168	74	58	59	2
Oreg.	509	607	704	179	169	141	108	49	35	32	2
Calif.	4,896	5,800	6,909	1,655	1,494	1,387	1,217	462	385	296	32
Alaska	57	71	85	7	14	33	11	8	3	7	3
Hawaii	189	219	275	25	63	71	53	23	17	23	(1)

Z. Less than 500.

¹ "Mining" combined with "Services." ² "Mining" combined with "Contract construction".

³ Federal employment in the Maryland and Virginia sectors of the Washington, D.C., Standard Metropolitan Statistical Area is included in District of Columbia.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*. Compiled from data supplied by cooperating State agencies.

No. 329. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, 1960, 1965, AND 1969, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS, 1965 AND 1969

[Covers all full- and part-time employees who worked during, or received pay for, any part of the pay period including the 12th of the month. For mining and manufacturing, data refer to production and related workers; for contract construction industries, to employees engaged in actual construction work; and for other industries, to nonsupervisory employees and working supervisors. See also headnote, table 325. "N.e.c." means not elsewhere classified. See *Historical Statistics, Colonial Times to 1957*, series D 48-56, D 626-641, and D 660-684, for related but not comparable data.]

INDUSTRY	ALL EMPLOYEES, AVERAGE ANNUAL NUMBER (1,000)			PRODUCTION WORKERS					
				Average annual number (1,000)		Average weekly hours		Average hourly earnings	
	1960	1965	1969	1965	1969	1965	1969	1965	1969
Total	54,234	60,815	70,141	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Private sector ¹	45,881	50,741	57,914	42,309	47,986	38.8	37.7	\$2.45	\$3.04
Mining	712	632	628	494	479	42.3	43.1	2.92	3.59
Metal mining	94	84	92	70	74	41.6	43.3	3.06	3.64
Coal mining	186	141	136	124	118	39.9	40.0	3.46	4.17
Oil and gas extraction	309	287	282	202	190	42.4	43.8	2.74	3.42
Nonmetallic minerals, except fuels	123	120	118	99	97	45.7	45.7	2.57	3.27
Contract construction	2,885	3,186	3,411	2,710	2,879	37.4	38.0	3.70	4.73
General building contractors	908	904	1,018	853	861	36.1	36.6	3.55	4.60
Heavy construction contractors	586	649	742	560	635	40.8	42.1	3.38	4.45
Special trade contractors	1,391	1,543	1,667	1,297	1,383	36.9	37.0	3.04	5.05
Manufacturing	16,796	18,062	20,121	13,434	14,735	41.2	40.6	2.61	3.19
Durable goods	9,459	10,406	11,880	7,715	8,639	42.0	41.3	2.78	3.38
Ordnance and accessories	220	228	329	96	183	41.9	40.5	3.13	3.44
Lumber and wood prod., ex. furniture	627	607	600	532	521	40.9	40.2	2.17	2.73
Logging camps and logging contr.	91	84	78	(4)	64	(4)	39.2	(4)	3.20
Sawmills and planing mills	288	249	232	228	211	40.6	40.2	2.03	2.62
Millwork, plywood, and related products	147	165	165	139	139	41.6	40.6	2.33	2.80
Wooden containers	42	34	38	31	34	41.2	39.9	1.77	2.28
Furniture and fixtures ³	383	431	492	357	409	41.6	40.4	2.12	2.62
Household furniture	272	309	347	285	296	41.4	40.2	2.01	2.48
Office furniture	28	30	39	24	31	42.3	42.0	2.46	2.90
Partitions and fixtures	40	44	53	32	41	41.8	40.8	2.70	3.21
Stone, clay, and glass products ⁴	604	628	681	505	530	42.0	42.0	2.62	3.18
Flat glass	33	32	26	26	20	42.5	42.5	3.52	4.08
Glass and glassware, pressed or blown	107	115	132	101	116	40.4	40.6	2.63	3.25
Cement, hydraulic	43	38	35	29	27	41.2	41.9	3.02	3.72
Structural clay products	76	70	65	59	53	41.6	40.7	2.26	2.60
Pottery and related products	47	43	46	37	39	39.8	39.8	2.39	2.87
Concrete, gypsum, and plaster prod.	160	178	188	137	147	44.0	43.9	2.57	3.21
Primary metal industries ³	1,231	1,301	1,350	1,062	1,079	42.1	41.8	3.18	3.70
Blast furnace and basic steel prod.	651	657	644	538	514	41.2	41.3	3.42	4.02
Iron and steel foundries	205	227	234	195	197	43.5	42.1	2.89	3.55
Nonferrous metals	70	74	88	57	68	41.0	42.4	2.97	3.58
Nonferrous rolling and drawing	179	197	217	151	164	43.5	42.8	2.99	3.55
Nonferrous foundries	66	82	92	68	76	41.0	41.1	2.72	3.33
Fabricated metal products ³	1,135	1,269	1,454	983	1,120	42.1	41.6	2.76	3.33
Metal cans	62	61	69	51	58	43.1	43.4	3.19	3.83
Cutlery, hand tools, and hardware	135	155	172	123	134	41.5	40.0	2.89	3.19
Plumbing and heating, ex. electric	78	80	84	60	68	40.1	40.6	2.62	3.11
Fabricated structural metal prod.	340	375	430	271	310	41.7	41.2	2.74	3.30
Screw machine products, bolts, etc.	87	98	115	77	91	43.9	43.2	2.75	3.37
Metal stampings	195	221	256	181	208	43.3	42.2	2.98	3.65
Metal services, n.e.c.	64	77	97	65	81	41.5	40.9	2.42	2.97
Machinery, except electrical ²	1,479	1,735	2,007	1,215	1,372	48.1	42.5	2.96	3.58
Engines and turbines	86	91	112	62	76	41.7	41.5	3.20	3.87
Farm machinery	112	136	132	99	94	41.4	40.2	2.94	3.51
Construction and related machinery	221	256	295	176	198	42.7	42.6	2.96	3.54
Metalworking machinery	261	304	344	229	256	45.4	44.2	3.18	3.90
Special industry machinery	168	193	200	134	133	43.4	42.7	2.77	3.35
General industrial machinery	227	261	284	176	180	42.9	42.8	2.95	3.57
Office and computing machines	147	191	254	112	135	42.4	41.9	3.00	3.58
Service industry machines	100	114	144	79	102	41.4	40.9	2.71	3.23
Electrical equipment and supplies ³	1,467	1,659	2,038	1,141	1,357	41.0	40.4	2.58	3.09
Electric test and distributing equip.	164	170	212	116	144	41.4	41.4	2.73	3.20
Electrical industrial apparatus	181	192	217	135	152	41.8	41.3	2.72	3.20
Household appliances	155	165	182	130	145	41.2	40.6	2.78	3.29
Electric lighting and wiring equip.	138	173	209	135	161	40.8	39.8	2.44	2.91

See footnotes at end of table.

No. 329. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, 1960, 1965, AND 1969, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS, 1965 AND 1969—Con.

INDUSTRY	ALL EMPLOYEES, AVERAGE ANNUAL NUMBER (1,000)			PRODUCTION WORKERS					
			1965	1969	1965	1969	Average annual number (1,000)	Average weekly hours	Average hourly earnings
	1960	1969					1965	1969	1965
Manufacturing—Continued									
Durable goods—Continued									
Electrical equip., supplies ¹ —Con.									
Radio and TV receiving equip.	107	133	155	106	115	39.8	38.4	\$2.30	\$2.60
Communication equipment	382	417	525	209	267	41.3	41.4	2.82	3.45
Electronic components and access.	234	307	410	233	286	40.4	30.4	2.21	2.68
Transportation equipment ³	1,569	1,741	2,035	1,241	1,431	42.9	41.5	3.21	3.00
Motor vehicles and equip.	724	843	901	659	760	44.2	41.7	3.34	4.10
Aircraft and parts	628	624	805	356	463	42.0	41.8	3.14	3.87
Ship and boat building and rep.	141	160	187	134	153	40.5	40.8	3.00	3.57
Railroad equipment	43	56	52	44	41	40.2	40.9	3.22	3.83
Instruments and related products	354	389	470	248	290	41.4	40.7	2.62	3.16
Engineering and scientific inst.	76	72	79	37	39	41.5	41.8	3.02	3.54
Mech. measuring, control devices	93	90	113	65	72	41.3	40.4	2.64	3.13
Optical and ophthalmic goods	41	46	51	33	36	41.9	40.3	2.37	2.97
Medical instr. and supplies	48	66	77	39	53	40.1	40.0	2.26	2.73
Photographic equip. and supplies	69	84	114	49	61	43.0	42.3	2.98	3.07
Watches, clocks, and watchcases	28	32	36	26	30	40.3	38.9	2.18	2.55
Misc. manufacturing industries ³	390	420	444	336	347	39.9	39.0	2.14	2.65
Jewelry, silverware, plated ware	44	46	52	36	39	41.0	39.5	2.33	2.01
Toys and sporting goods	100	117	126	97	104	39.2	38.2	1.95	2.30
Pens, pencils, office/art supplies	30	33	34	25	24	40.4	39.4	2.05	2.64
Costume jewelry and notions	60	56	62	47	51	39.6	38.4	1.96	2.45
Nondurable goods	7,336	7,656	8,241	5,719	6,096	40.1	39.7	2.36	2.91
Food and kindred products ³	1,790	1,757	1,794	1,189	1,205	41.1	40.8	2.43	2.95
Meat products	323	318	338	253	273	41.1	41.2	2.61	3.13
Dairy products	316	286	253	131	119	42.2	41.8	2.49	3.03
Canned, cured, and frozen foods	246	260	283	220	238	39.3	39.3	2.01	2.50
Grain mill products	131	127	137	89	97	45.0	45.1	2.52	3.08
Bakery products	301	287	275	167	161	40.4	40.0	2.51	3.00
Sugar	36	36	40	29	32	42.6	40.6	2.59	3.03
Confectionery and related prod.	78	77	85	63	70	39.4	39.2	2.12	2.58
Beverages	217	222	238	114	121	40.6	40.0	2.81	3.41
Tobacco manufactures ³	94	87	81	75	68	37.9	37.4	2.09	2.84
Cigarettes	38	39	41	32	33	37.7	37.1	2.53	3.20
Cigars	28	24	20	23	18	37.4	37.4	1.71	2.07
Textile mill products ³	924	926	987	827	871	41.8	40.8	1.87	2.34
Weaving mills, cotton	254	220	228	211	206	42.7	41.1	1.88	2.34
Weaving mills, synthetic	84	92	102	83	91	43.7	42.7	1.92	2.40
Weaving and finishing mills, wool	56	40	44	40	38	42.7	42.0	1.98	2.41
Narrow fabric mills	28	29	32	26	28	41.3	40.6	1.84	2.32
Knitting mills	215	229	246	206	216	38.8	38.3	1.76	2.26
Textile finishing, except wool	77	77	84	65	71	42.5	42.2	2.02	2.50
Floor covering mills	38	41	54	34	44	42.9	43.0	1.90	2.42
Yarn and thread mills	103	100	122	101	113	42.6	40.9	1.73	2.19
Apparel and other textile prod. ³	1,233	1,354	1,418	1,206	1,245	36.4	35.9	1.83	2.31
Men's and boys' suits and coats	120	110	137	107	120	37.9	37.6	2.18	2.77
Men's and boys' furnishings	304	352	373	319	331	37.6	36.8	1.54	2.00
Women's and misses' outerwear	371	417	431	374	382	34.0	34.0	2.02	2.47
Undergarments ³	118	121	125	107	109	36.7	36.2	1.64	2.11
Hats, caps, and millinery	35	29	21	26	18	36.5	36.0	1.92	2.17
Children's outerwear	77	78	80	70	71	36.4	35.5	1.87	2.13
Fur goods and misc. apparel	70	76	78	66	67	36.5	35.6	1.95	2.44
Paper and allied products	601	639	716	498	555	43.1	43.0	2.05	3.24
Paper and pulp mills	228	212	224	168	175	44.5	44.8	2.88	3.58
Paperboard mills	69	68	73	54	58	45.1	45.3	2.03	3.61
Misc. converted paper products	132	160	187	117	136	41.6	41.3	2.39	2.93
Paperboard containers and boxes	177	200	232	159	186	42.2	41.7	2.47	2.98
Printing and publishing ³	911	970	1,087	821	676	38.6	38.3	3.06	3.69
Newspapers	325	345	366	175	170	36.1	36.0	3.32	4.03
Periodicals	70	70	79	25	28	40.2	41.4	3.14	3.91
Books	70	81	97	50	54	41.3	40.1	2.88	3.25
Commercial printing	291	309	346	242	269	39.4	39.2	3.07	3.71
Blankbooks and bookbinding	47	51	58	42	48	38.8	37.9	2.38	2.84

See footnotes at end of table.

No. 329. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, 1960, 1965, AND 1969, AND NUMBER, HOURS, AND EARNINGS OF PRODUCTION WORKERS, 1965 AND 1969—Con.

INDUSTRY	ALL EMPLOYEES, AVERAGE ANNUAL NUMBER (1,000)			PRODUCTION WORKERS									
	1960	1965	1969	1965	1969	Average annual number (1,000)	Average weekly hours	Average hourly earnings					
						1965	1969	1965					
Manufacturing—Continued													
Nondurable goods—Continued													
Chemicals and allied products ³	828	908	1,049	546	617	41.9	41.8	\$2.89					
Industrial chemicals.....	284	290	314	187	173	42.0	42.4	3.24					
Plastics materials and synthetics.....	155	194	224	131	148	42.5	42.2	3.84					
Drugs.....	100	118	143	82	71	40.7	41.0	2.63					
Soap, cleaners, and toilet goods.....	91	106	123	65	73	40.7	40.9	2.78					
Paints and allied products.....	63	68	72	37	40	41.6	41.0	2.72					
Agricultural chemicals.....	46	53	55	35	34	43.4	42.6	2.32					
Petroleum and coal products.....	212	183	184	113	113	42.2	42.6	3.28					
Petroleum refining.....	177	148	146	89	86	41.8	42.1	3.47					
Other petroleum and coal prod.	35	35	38	24	27	43.9	44.2	2.64					
Rubber and plastic prod., n.e.c. ³	379	471	581	366	450	42.0	41.1	2.61					
Tires and inner tubes.....	105	102	118	73	83	44.4	44.7	3.56					
Leather and leather products ³	363	353	345	310	296	38.2	37.2	1.88					
Leather tanning and finishing.....	34	32	29	28	25	41.0	39.9	2.39					
Footwear, except rubber.....	243	235	227	209	198	37.8	36.9	1.82					
Handbags and pers. leather goods.....	36	36	37	31	31	37.7	36.7	1.80					
Transp. and public utilities.....	4,004	4,036	4,448	(4)	(4)	(4)	(4)	(4)					
Railroad transportation.....	885	735	645	(4)	(4)	(4)	(4)	(4)					
Class I railroads ⁴	781	640	622	(4)	(4)	43.6	43.7	3.00					
Local and interurban pass. transit.....	284	269	283	(4)	(4)	(4)	(4)	(4)					
Trucking and warehousing.....	856	964	1,088	878	985	42.5	41.8	3.07					
Transportation by air.....	191	229	351	(4)	(4)	(4)	(4)	(4)					
Pipeline transportation.....	28	20	19	16	15	41.2	41.3	3.54					
Other transportation and services.....	310	315	338	(4)	(4)	(4)	(4)	(4)					
Communication ³	840	881	1,062	608	835	40.5	40.1	2.75					
Telephone communication.....	706	735	883	587	704	40.4	40.3	2.70					
Telegraph communication.....	38	32	32	722	22	43.0	42.3	2.85					
Radio and television broadcasting.....	92	107	131	87	104	38.6	38.1	3.26					
Electric, gas, and sanitary services.....	615	623	664	542	571	41.4	41.5	3.17					
Electric companies and systems.....	253	253	275	215	235	41.4	41.8	3.22					
Gas companies and systems.....	155	154	168	135	135	41.1	40.8	3.58					
Combination companies, systems.....	175	177	183	158	160	41.8	41.8	3.44					
Water, steam, sanitary systems.....	33	40	47	35	42	41.4	41.0	2.54					
Wholesale and retail trade.....	11,391	12,716	14,644	11,358	13,035	37.7	35.6	2.03					
Wholesale trade.....	3,004	3,312	3,767	2,814	3,169	40.8	40.2	2.61					
Retail trade ³	8,388	9,404	10,876	8,544	9,867	38.6	34.2	1.82					
Retail general merchandise.....	1,568	1,873	2,297	1,720	2,112	33.8	32.2	1.75					
Food stores.....	1,356	1,469	1,692	1,364	1,577	34.3	32.5	2.06					
Apparel and accessory stores.....	619	640	703	577	632	33.6	32.0	1.71					
Furniture and home furn. stores.....	400	410	443	362	388	39.9	37.4	2.21					
Eating and drinking places.....	1,654	1,988	2,410	1,853	2,253	35.2	31.9	1.30					
Finance, ins., and real estate.....	2,669	3,023	3,559	2,426	2,829	37.2	37.1	2.39					
Banking.....	673	792	981	664	814	37.2	37.2	2.13					
Credit agencies other than banks.....	327	361	263	282	37.8	37.7	2.23	2.64					
Security, commer. brokers, services.....	114	129	214	114	189	37.7	37.8	3.38					
Insurance carriers.....	882	893	1,020	634	714	37.3	36.9	2.57					
Ins. agents, brokers, services.....	196	233	270	(4)	(4)	(4)	(4)	(4)					
Real estate.....	517	569	633	(4)	(4)	(4)	(4)	(4)					
Other finance, ins., real estate.....	76	80	81	(4)	(4)	(4)	(4)	(4)					
Services ³	7,423	9,087	11,103	(4)	(4)	(4)	(4)	(4)					
Hotels and lodging places.....	565	659	730	(4)	(4)	(4)	(4)	(4)					
Personal services.....	894	985	1,025	(4)	(4)	(4)	(4)	(4)					
Misc. business services.....	757	1,109	1,488	(4)	(4)	(4)	(4)	(4)					
Motion pictures.....	190	185	208	(4)	(4)	(4)	(4)	(4)					
Medical and other health services.....	1,548	2,080	2,856	(4)	(4)	(4)	(4)	(4)					
Government.....	8,353	10,074	12,227	(NA)	(NA)	(NA)	(NA)	(NA)					
Federal Government.....	2,270	2,378	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)					
State and local government.....	6,083	7,696	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)					

NA. Not available. ¹ Excludes government. ² 11-month average.

³ Includes industries not shown separately. ⁴ Included in "Private sector"; not available separately.

⁵ Women's and children's. ⁶ Relates to railroads with operating revenues of \$5,000,000 or more, beginning January 1965. ⁷ Excludes messengers.

⁸ Data for nonoffice salesmen excluded from nonsupervisory count for all series in this division.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 330. MARITAL STATUS OF WOMEN IN THE CIVILIAN LABOR FORCE: 1940 TO 1969

(Persons 14 years old and over through 1966; thereafter, 16 years old and over. As of March, except as indicated. Prior to 1960, excludes Alaska and Hawaii. Includes institutional population. Figures for 1940 based on complete census revised for comparability with intercensal series. Data for 1944-1969 based on Current Population Survey; see text, p. 1. Beginning 1955, figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 census date through 1961, and of 1960 census data beginning March 1962. See table 38. See also *Historical Statistics, Colonial Times to 1957*, series D 33-35.]

YEAR	FEMALE LABOR FORCE (1,000)				PERCENT DISTRIBUTION OF FEMALE LABOR FORCE			FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION			
	Married		Widowed or divorced	Single	Married	Widowed or divorced	Total	Single	Married		Widowed or divorced
	Total	Single							Total	Husband present	
1940-----	13,840	6,710	5,040	14,200	2,000	48.5	36.4	15.1	27.4	48.1	16.7
1944 ¹ -----	18,449	7,542	8,433	6,226	2,474	40.9	45.7	13.4	35.0	58.6	25.6
1947-----	16,323	6,181	7,545	6,676	2,597	37.9	46.2	15.9	29.8	51.2	21.7
1950-----	17,795	5,621	9,273	8,550	2,901	31.6	52.1	16.3	31.4	50.5	24.8
1955 ¹ -----	20,154	5,087	11,830	10,423	3,227	25.2	53.7	18.0	33.5	46.4	29.4
1956-----	20,842	5,167	12,273	11,126	3,397	24.8	58.9	16.3	34.2	46.4	30.2
1957-----	21,524	5,378	12,096	11,529	3,450	25.0	50.0	16.0	34.8	46.8	30.8
1958-----	22,000	5,365	13,032	11,826	3,604	24.4	58.2	16.4	35.0	45.4	31.4
1959-----	22,376	5,162	13,586	12,205	3,628	23.1	60.7	16.2	35.2	43.4	32.3
1960-----	22,516	5,401	13,485	12,253	3,629	24.0	59.9	16.1	34.8	44.1	31.7
1961-----	24,199	5,663	14,612	13,206	3,924	23.4	60.4	16.2	36.8	44.4	34.0
1962-----	23,978	5,481	14,770	13,485	3,727	22.9	61.6	15.5	35.7	41.7	33.7
1963-----	24,675	5,614	15,362	14,061	3,699	22.8	62.3	15.0	36.1	41.0	34.6
1964-----	25,399	5,781	15,700	14,461	3,828	22.8	62.2	15.1	36.5	40.9	35.3
1965-----	25,982	5,912	16,154	14,708	3,886	22.8	62.2	15.0	36.7	40.5	35.7
1966-----	26,820	6,106	16,676	15,178	4,038	22.7	62.2	15.1	37.3	40.8	36.5
1967-----	27,645	5,915	17,486	15,908	4,144	21.5	63.5	15.0	39.7	50.7	37.8
1968-----	28,778	6,357	18,234	16,821	4,187	22.1	63.4	14.6	40.7	51.3	39.1
1969-----	29,898	6,501	19,100	17,595	4,207	21.7	63.9	14.4	41.6	51.2	40.4

¹ As of April.

Source: 1940-1958, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1959, Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Reports*.

No. 331. MARRIED WOMEN (HUSBAND PRESENT) IN THE LABOR FORCE, BY AGE AND PRESENCE OF CHILDREN: 1950 TO 1969

[In thousands, except percent. As of March, except as noted. Prior to 1960, excludes Alaska and Hawaii]

ITEM	1950	1955 ¹	1960	1965	1966	1967	1968	1969
NUMBER								
Total -----								
Total-----	8,550	10,423	12,253	14,708	15,178	15,908	16,821	17,595
With no children under 18 years old-----	4,946	5,227	5,692	6,755	7,043	7,158	7,564	7,853
With children 6-17 years old only-----	2,205	3,183	4,087	4,836	4,949	5,269	5,693	6,146
With children under 6 years old-----	1,390	2,012	2,474	3,117	3,188	3,480	3,564	3,596
Also with children 6-17 years old-----	651	1,086	1,351	1,709	1,755	1,851	1,923	1,840
LABOR FORCE PARTICIPATION RATE²								
Total-----	23.8	27.7	30.5	34.7	35.4	36.8	38.3	39.6
With no children under 18 years old-----	30.3	32.7	34.7	38.3	38.4	38.9	40.0	41.0
With children 6-17 years old only-----	28.3	34.7	39.0	42.7	43.7	46.0	46.9	46.6
With children under 6 years old-----	11.9	16.2	18.6	23.3	24.2	26.5	27.6	28.5
Also with children 6-17 years old-----	12.6	17.3	18.9	22.8	24.3	26.2	27.4	27.8

¹ As of April.

² Married women in the labor force as percent of married women in the population.

Source: 1950 and 1955, Dept. of Commerce, Bureau of the Census, *Current Population Reports*, Series P-50, No. 62; thereafter, Dept. of Labor, Bureau of Labor Statistics, *Special Labor Force Reports*.

No. 332. CIVILIAN FEMALE POPULATION—TOTAL AND LABOR FORCE, BY AGE AND MARITAL STATUS: 1969

[In thousands of persons 16 years old and over, except as indicated. As of March. Includes institutional population. See headnote, table 316.]

AGE AND MARITAL STATUS	Population	LABOR FORCE		AGE AND MARITAL STATUS	Population	LABOR FORCE	
		Number	Percent of population			Number	Percent of population
Total.....	71,919	29,898	41.6	Married, husband present.....	44,440	17,595	39.6
16-19 years.....	7,159	2,665	37.2	16-19 years.....	817	289	35.4
20-24 years.....	8,040	4,554	56.6	20-24 years.....	4,800	2,204	47.9
25-34 years.....	12,285	5,334	43.4	25-34 years.....	9,982	3,080	30.9
35-44 years.....	11,927	5,884	49.3	35-44 years.....	9,851	4,470	45.4
45-64 years.....	21,414	10,366	48.4	45-64 years.....	15,475	6,665	43.1
65 years and over.....	11,094	1,105	10.0	65 years and over.....	3,715	281	7.0
Median age ¹years.....	42.2	39.5	(X)	Median age ¹years.....	42.0	41.2	(X)
Single.....	12,689	6,501	51.2	Other marital status.....	14,790	5,802	39.2
16-19 years.....	6,172	2,288	37.1	16-19 years.....	170	88	51.8
20-24 years.....	2,850	1,979	69.4	20-24 years.....	590	371	62.9
25-34 years.....	1,071	866	80.9	25-34 years.....	1,232	782	68.5
35-44 years.....	590	433	72.3	35-44 years.....	1,477	981	66.4
45-64 years.....	1,147	779	67.9	45-64 years.....	4,792	2,912	60.8
65 years and over.....	850	156	18.4	65 years and over.....	6,529	668	10.2
Median age ¹years.....	20.3	22.4	(X)	Median age ¹years.....	62.0	50.1	(X)

X. Not applicable.

¹ For definition of median, see preface.

Source: Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*.

No. 333. WOMEN EMPLOYEES IN SELECTED INDUSTRIES: 1965, 1967, AND 1969

[In thousands, except percent. Annual averages]

INDUSTRY GROUP	1965			1967			1969		
	Number	Percent of—		Number	Percent of—		Number	Percent of—	
		Industry group	Total employment		Industry group	Total employment		Industry group	Total employment
Total.....	20,682	34	34	23,371	35	35	25,519	36	36
Manufacturing.....	4,768	26	8	5,348	28	8	5,661	28	8
Durable goods.....	1,889	18	3	2,271	20	3	2,461	21	3
Non durable goods.....	2,879	38	5	3,077	38	5	3,210	30	5
Mining.....	34	5	(2)	35	6	(2)	37	6	(2)
Contract construction.....	146	5	(2)	152	5	(2)	160	5	(2)
Transportation and public utilities.....	748	19	1	836	20	1	916	21	1
Wholesale trade.....	729	22	1	794	22	1	807	23	1
Retail trade.....	4,152	44	7	4,498	45	7	4,944	45	7
Finance, insurance, and real estate.....	1,502	50	2	1,620	51	2	1,832	51	3
Services.....	4,622	51	8	5,287	52	8	5,978	54	9
Government.....	3,981	39	7	4,815	41	7	5,124	42	7

Z. Less than 0.5 percent.

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

Employed Persons

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No. 334. EMPLOYED PERSONS, BY MAJOR OCCUPATION GROUP AND SEX: 1950 TO 1970

(In thousands of persons 14 years old and over, except as noted. Prior to 1960, excludes Alaska and Hawaii. Annual averages except as indicated. Beginning 1965, not strictly comparable with previous years. See *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data)

MAJOR OCCUPATION GROUP AND SEX	1950 ¹	1955 ¹	1960	1965	1968 ²	1969 ²	1970, Apr. ²
Total.....	59,648	62,997	66,681	72,179	75,920	77,902	78,403
White-collar workers.....	22,373	24,585	28,726	32,104	35,551	36,845	38,068
Percent of total.....	37.5	30.0	43.1	44.5	46.8	47.3	46.6
Professional and technical workers.....	4,490	5,792	7,475	8,883	10,325	10,769	11,322
Managers, officials, and proprietors.....	6,429	6,450	7,067	7,340	7,778	7,987	8,108
Clerical workers.....	7,632	8,367	9,783	11,166	12,803	13,397	13,834
Salesworkers.....	3,822	3,976	4,401	4,715	4,847	4,692	4,714
Blue-collar workers.....	23,336	24,771	24,211	26,466	27,524	28,237	27,452
Craftsmen and foremen.....	7,670	8,328	8,560	9,221	10,015	10,193	10,027
Operatives.....	12,146	12,762	11,985	13,390	13,955	14,372	13,811
Nonfarm laborers.....	3,520	3,681	3,665	3,855	3,555	3,672	3,614
Service workers.....	6,535	7,106	8,349	9,342	9,381	9,528	9,724
Private household workers.....	1,883	1,946	2,216	2,251	1,725	1,631	1,585
Other service workers.....	4,652	5,160	6,133	7,091	7,656	7,897	8,139
Farmworkers.....	7,408	6,537	5,305	4,265	3,464	3,292	3,104
Male.....	42,156	43,191	44,485	47,034	48,114	48,818	48,666
White-collar workers.....	13,549	14,305	16,596	17,964	19,115	19,574	20,007
Percent of total.....	32.1	33.1	37.3	38.2	39.7	40.1	41.1
Professional and technical workers.....	2,696	3,608	4,768	5,602	6,449	6,751	6,890
Managers, officials, and proprietors.....	5,430	5,454	5,967	6,229	6,535	6,726	6,896
Clerical workers.....	3,085	2,792	3,154	3,293	3,400	3,422	3,497
Salesworkers.....	2,378	2,451	2,707	2,840	2,724	2,675	2,724
Blue-collar workers.....	10,727	20,925	20,578	22,314	22,812	23,263	22,775
Craftsmen and foremen.....	7,482	8,114	8,338	8,951	9,696	9,864	9,737
Operatives.....	8,810	9,235	8,652	9,620	9,687	9,883	9,639
Nonfarm laborers.....	3,435	3,576	3,583	3,743	3,429	3,526	3,490
Service workers.....	2,685	2,657	2,918	3,287	3,308	3,257	3,212
Private household workers.....	125	42	45	57	55	39	28
Other service workers.....	2,560	2,615	2,873	3,230	3,273	3,218	3,185
Farmworkers.....	6,196	5,305	4,398	3,466	2,878	2,723	2,692
Female.....	17,493	19,807	22,196	25,145	27,807	29,084	29,722
White-collar workers.....	8,824	10,280	12,129	14,137	16,435	17,271	18,060
Percent of total.....	50.4	51.9	54.6	55.2	59.1	59.4	60.8
Professional and technical workers.....	1,794	2,183	2,706	3,280	3,877	4,018	4,331
Managers, officials, and proprietors.....	990	997	1,009	1,110	1,241	1,261	1,301
Clerical workers.....	4,597	5,575	6,629	7,873	9,394	9,975	10,337
Salesworkers.....	1,443	1,525	1,695	1,874	1,923	2,017	1,990
Blue-collar workers.....	3,608	3,847	3,637	4,153	4,712	4,974	4,876
Craftsmen and foremen.....	188	215	222	270	319	330	290
Operatives.....	3,336	3,527	3,383	3,772	4,267	4,489	4,272
Nonfarm laborers.....	84	105	82	111	126	146	115
Service workers.....	3,850	4,449	5,431	6,057	6,078	6,271	6,513
Private household workers.....	1,758	1,904	2,171	2,195	1,689	1,592	1,569
Other service workers.....	2,092	2,545	3,260	3,862	4,383	4,679	4,954
Farmworkers.....	1,212	1,233	998	799	586	569	472

¹ Based on first month in each quarter. See also footnote 1, table 336. ² Persons 16 years old and over.

Source: 1950 and 1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

No. 335. EMPLOYED PERSONS, BY OCCUPATION AND RACE: 1957 TO 1969

[Percent distribution. 1957 excludes Alaska and Hawaii. Annual averages based on data for January, April, July, and October in 1957; on 12-months data thereafter. Covers persons 16 years old. "N.e.c." means not elsewhere classified]

OCCUPATION	WHITE					NEGRO AND OTHER				
	1957	1960	1965	1968	1969	1957	1960	1965	1968	1969
Total employed..... 1,000	57,513	58,850	63,445	67,751	69,518	6,647	6,927	7,643	8,160	8,834
Percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers.....	44.2	46.6	47.9	49.5	49.8	12.8	16.1	10.5	24.4	26.2
Professional, technical and kindred.....	10.8	12.1	13.2	14.3	14.5	3.7	4.8	6.9	7.8	8.3
Medical and other health.....	1.9	2.1	2.2	2.2	2.2	0.6	0.8	1.2	1.4	1.5
Teachers, except college.....	2.2	2.6	2.7	3.0	3.0	1.3	1.7	2.5	2.6	2.8
Other professional and technical.....	6.7	7.5	8.3	9.1	9.3	1.7	2.3	3.1	3.8	4.0
Managers, officials, and proprietors.....	11.4	11.7	11.2	11.1	11.1	2.1	2.6	2.7	2.8	3.0
Salaried workers.....	5.2	5.9	6.8	7.9	8.0	0.5	0.9	1.1	1.4	1.6
Self-employed.....	6.2	5.8	4.4	3.2	3.1	1.6	1.7	1.5	1.3	1.4
Clerical workers.....	15.2	15.7	16.6	17.5	17.7	6.0	7.3	8.2	11.8	12.9
Stenographers, typists, and seccys.....	3.6	3.9	4.4	4.7	4.7	1.2	1.4	1.5	2.2	2.4
Other clerical workers.....	11.6	11.8	12.2	12.8	13.0	4.8	5.9	6.8	9.7	10.5
Salesworkers.....	6.7	7.0	6.9	6.6	6.5	1.0	1.5	1.8	1.9	2.0
Retail trade.....	4.0	4.1	4.1	4.0	3.9	0.8	1.0	1.3	1.3	1.4
Other salesworkers.....	2.7	2.9	2.7	2.7	2.6	0.2	0.5	0.5	0.6	0.5
Blue-collar workers.....	38.2	38.2	36.4	35.5	35.5	41.8	40.1	41.0	42.4	42.8
Craftsmen and foremen.....	14.4	13.8	13.7	13.8	13.6	5.7	6.0	6.8	8.0	8.5
Carpenters.....	1.5	1.4	1.3	1.2	1.2	0.5	0.4	0.5	0.6	0.6
Constr. craftsmen, exc. carpenters.....	2.7	2.7	2.7	2.6	2.6	1.4	1.6	1.8	1.9	2.0
Mechanics and repairmen.....	3.3	3.2	3.4	3.6	3.6	1.8	1.7	1.9	2.6	2.6
Metal craftsmen, except mechanics.....	2.0	1.8	1.7	1.8	1.7	0.5	0.6	0.7	0.8	0.8
Other craftsmen and kindred.....	2.8	2.9	2.7	2.6	2.5	1.1	1.2	1.3	1.5	1.6
Foremen (n.e.c.).....	2.0	1.9	1.9	2.1	2.1	0.3	0.4	0.5	0.6	0.8
Operatives.....	19.3	17.9	18.4	17.7	17.8	21.2	20.4	21.5	23.6	23.0
Drivers and deliverymen.....	3.5	3.6	3.4	3.2	3.2	4.7	4.4	4.3	4.3	4.0
Other operatives.....	15.8	14.4	15.0	14.5	14.6	16.5	16.0	17.2	19.4	19.0
Nonfarm laborers.....	4.5	4.4	4.3	4.0	4.0	14.9	13.7	12.6	10.7	10.5
Service industries.....	9.1	9.9	10.3	10.4	10.5	32.0	31.7	31.6	28.3	26.7
Private household workers.....	1.5	1.7	1.6	1.4	1.3	14.9	14.2	12.6	9.5	8.5
Service workers, exc. priv. household.....	7.5	8.2	8.7	9.0	9.2	17.1	17.5	19.0	18.8	18.2
Protective service workers.....	1.2	1.2	1.3	1.3	1.3	0.5	0.5	0.5	0.8	0.9
Waiters, cooks, bartenders.....	2.3	2.4	2.6	2.6	2.6	3.6	3.6	3.9	3.9	3.8
Other service workers.....	4.0	4.6	4.8	5.1	5.3	13.0	13.4	14.7	14.1	13.7
Farmworkers.....	8.6	7.4	5.4	4.5	4.2	13.5	12.1	7.8	4.9	4.2
Farmers and farm managers.....	5.3	4.8	3.3	2.7	2.5	4.2	3.2	1.8	1.2	1.0
Farm laborers and foremen.....	3.3	3.0	2.1	1.8	1.7	9.3	9.0	6.0	3.7	3.2
Paid workers.....	1.6	1.7	1.2	1.1	1.0	6.6	6.6	5.1	3.4	2.9
Unpaid family workers.....	1.6	1.3	0.9	0.7	0.7	2.7	2.4	0.9	0.4	0.3

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*, December 1969, and unpublished data.

No. 336. CLASS OF WORKER OF EMPLOYED PERSONS, BY SEX: 1955 TO 1969

[In thousands of persons 14 years old and over through 1965; 16 and over thereafter. See headnote, table 334]

CLASS OF WORKER	1955 ¹		1960		1965		1969	
	Male	Female	Male	Female	Male	Female	Male	Female
Employed in agriculture.....								
Wage and salary workers.....	5,487	1,243	4,678	1,045	3,729	856	2,963	643
Self-employed workers.....	1,415	285	1,558	308	1,243	249	987	192
Unpaid family workers.....	3,582	2,687	116	2,170	137	812	85	307
Employed in nonagricultural industries.....								
Wage and salary workers.....	37,803	18,661	39,807	21,151	43,304	24,289	45,854	28,441
In private households.....	32,934	17,119	34,689	19,287	38,434	22,331	41,831	26,605
Government workers.....	254	1,962	288	2,201	334	2,214	197	1,029
Other wage and salary workers.....	4,234	2,604	4,788	3,155	5,686	3,938	6,645	5,370
Self-employed workers.....	4,809	1,077	29,613	13,981	32,415	16,179	34,900	19,687
Unpaid family workers.....	60	465	91	524	77	540	55	402

¹ Data not adjusted for change in definition of employment adopted in 1957. For adjusted totals, see table 316.

Source: 1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50; thereafter, Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

Civilian Labor Force

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No. 337. EXPERIENCED CIVILIAN LABOR FORCE, BY RACE, SEX, AND OCCUPATION:
1960

[Persons 14 years old and over. For definition, see text, p. 210. "N.e.c." means not elsewhere classified]

SEX AND OCCUPATION	All races (1,000)	Per- cent Negro and other	SEX AND OCCUPATION	All races (1,000)	Per- cent Negro and other
Male	45,686	9.6	Male—Continued		
Prof., tech., and kindred workers	4,543	3.5	Salesworkers—Continued		
Accountants and auditors	396	1.4	Salesmen and sales clerks (n.e.c.) ²	2,297	1.9
Architects	30	2.3	Manufacturing	424	0.6
Artists and art teachers	68	3.2	Wholesale trade	483	0.9
Authors, editors, and reporters	86	1.4	Retail trade	1,263	2.8
Chemists	77	3.4	Craftsmen, foremen, kindred workers	8,973	4.9
Clergymen	197	7.7	Bakers	94	8.6
College presidents, professors, and instructors (n.e.c.)	140	4.0	Blacksmiths, forgemen, and hammer- men	33	5.1
Dentists	81	3.5	Boilermakers	27	3.1
Designers and draftsmen	282	2.4	Cabinetmakers and patternmakers	108	2.5
Engineers	552	1.7	Carpenters	921	5.3
Aeronautical	52	2.1	Compositors and typesetters	167	2.7
Civil	157	2.1	Cranemen, derrickmen, and hoistmen	131	10.0
Electrical	184	1.7	Electricians	358	2.2
Mechanical	160	1.2	Foremen (n.e.c.)	1,117	1.9
Other technical engineers	312	0.8	Manufacturing:		
Lawyers and judges	206	1.3	Durable goods	433	1.1
Musicians and music teachers	86	7.9	Nondurable goods (incl. not speci- fied)	263	1.7
Natural scientists (n.e.c.)	59	2.8	Nonmanufacturing, not reported	421	2.8
Pharmacists	85	2.6	Linemen, servicemen, telegraph, tele- phone, and power	273	1.7
Physicians and surgeons	214	4.0	Locomotive engineers	58	0.5
Social scientists	43	2.4	Locomotive firemen	39	2.4
Social, welfare, and recreation workers ¹	58	11.1	Machinists and jobsetters	549	2.8
Teachers	420	7.3	Masons, tilesetters, and stonemasons	213	12.3
Elementary school	144	10.2	Mechanics and repairmen	922	6.8
Secondary school	276	5.8	Airplane	117	4.6
Teachers (n.e.c.)	58	5.4	Automobile	701	7.4
Technicians	142	5.7	Radio and TV	104	5.1
Medical and dental	53	10.0	Other mechanics, repairmen, etc.	1,375	5.6
Electrical and electronic	89	3.0	Millwrights	68	1.9
Other prof., technical, and kindred	971	3.5	Molders, metal	51	23.5
Farmers and farm managers	2,406	7.4	Painters (const.), paperhanglers, etc.	433	7.7
Managers, officials, and proprie- tors except farm	4,695	2.0	Plasterers and cement finishers	100	22.8
Officials and inspectors, State and local administrators	136	2.0	Plumbers and pipefitters	330	3.8
Other specified managers and officials	604	2.2	Printing craftsmen ³	127	2.6
Managers, officials, and proprietors (n.e.c.)—salaried ²	2,252	1.3	Shoemakers and repairers, exc. factory	34	13.0
Manufacturing	619	0.5	Stationary engineers	274	2.3
Wholesale and retail trade	709	1.6	Structural metal workers	66	5.0
Finance, ins., and real estate	295	1.4	Tailors and fitters	37	7.4
Managers, officials, and proprietors (n.e.c.)—self-employed ²	1,703	2.8	Tinsmiths, coppersmiths, etc.	144	2.4
Construction	228	2.2	Toolmakers, die makers, and setters	185	1.0
Manufacturing	180	1.2	Other craftsmen and kindred workers	744	5.6
Wholesale trade	129	2.8	Operatives and kindred workers	9,234	11.1
Eating and drinking places	146	5.6	Apprentices	85	3.1
Retail trade, except eating and drinking places	681	2.3	Assemblers	376	7.7
Clerical and kindred workers	3,120	6.8	Attendants, auto service, and parking	370	10.0
Bookkeepers	153	2.0	Brakemen and switchmen, railroad	124	3.0
Mail carriers	197	11.0	Bus drivers	166	10.8
Other clerical and kindred workers	2,770	6.8	Checkers, examiners, and insp., mfg.	278	3.6
Salesworkers	3,055	2.1	Filers, grinders, etc., metal	150	8.3
Insurance agents, brokers, etc.	333	1.9	Furnacemen, smeltermen, and pourers	56	23.8
Real estate agents and brokers	149	2.1	Laundry and dry cleaning operatives	116	38.3
Other specified salesworkers	276	3.9	Meat cutters, exc. slaughter, etc.	180	5.0
			Mine operatives and laborers (n.e.c.)	329	5.2
			Packers and wrappers (n.e.c.)	191	16.5
			Painters, exc. construction and maint.	134	11.1
			Power station operators	26	1.7
			Sailors and deckhands	40	13.5
			Sawyers	92	18.3
			Spinners and weavers, textile	49	1.2
			Stationary firemen	92	13.0
			Cab drivers and chauffeurs	166	19.1

See footnotes at end of table.

No. 387. EXPERIENCED CIVILIAN LABOR FORCE, BY RACE, SEX, AND OCCUPATION:
1960—Continued

[Persons 14 years old and over. For definition, see text, p. 210. "N.e.c." means not elsewhere classified]

SEX AND OCCUPATION	All races (1,000)	Per- cent Negro and other	SEX AND OCCUPATION	All races (1,000)	Per- cent Negro and other
Male—Continued					
Operatives—Continued					
Truck drivers ⁴	2,081	13.4	Therapists and healers (n.e.c.)	20	5.9
Welders and flame-cutters	368	6.7	Other	254	4.8
Other specified operatives and workers	256	8.3	Farmers and farm managers	120	15.1
Operatives and kindred wks. (n.e.c.)	3,507	11.1	Managers, officials, and proprie- tors, except farm	794	3.9
Manufacturing	2,934	10.2	Specified managers and officials	163	2.6
Durable goods	1,611	10.4	Managers, officials, and proprietors (n.e.c.)—salaried	341	3.1
Nondurable goods	1,317	9.9	Managers, officials, and proprietors (n.e.c.)—self-employed	290	6.8
Not specified manufacturing indu- stry	6	20.5	Clerical and kindred workers	6,497	3.6
Nonmanufacturing (incl. not reptd.) ²	573	15.9	Bookkeepers	783	1.4
Trans., comm., and other pub. util.	138	12.6	Cashiers	387	3.7
Wholesale and retail trade	160	18.4	Office-machine operators	236	5.0
Private household workers	65	48.4	Secretaries	1,452	2.0
Service workers, except private household	2,745	21.5	Stenographers	264	2.8
Barbers	175	9.6	Telephone operators	356	2.6
Charwomen and janitors ⁴	754	38.5	Typists	617	6.7
Cooks	216	27.4	Other clerical and kindred workers	2,602	4.8
Elevator operators	62	22.1	Salesworkers	1,746	2.8
Firemen, fire protection	139	2.5	Insurance and real estate agents ⁷	83	4.4
Guards and watchmen	250	5.9	Other specified sales workers	72	3.2
Policemen and sheriffs ⁴	277	3.9	Salesmen, sales clerks (n.e.c.)		
Waiters, bartenders, and counter wks.	551	14.8	Retail trade	1,472	2.7
Other service workers	1,131	25.4	Except retail trade	120	3.2
Farm laborers and foremen	1,290	24.0	Craftsmen, foremen, kindred workers	268	7.3
Unpaid family workers	159	13.8	Foremen (n.e.c.)	82	4.1
Except unpaid, and farm foremen	1,131	25.4	Other craftsmen and kindred workers	187	8.7
Laborers, except farm and mine	3,405	26.1	Operatives and kindred workers	3,612	10.6
Fishermen and oystermen	40	12.9	Assemblers	811	5.6
Longshoremen and stevedores	60	38.0	Checkers, examiners, and insp., mfg.	237	4.4
Lumbermen, raftsmen, and woodchop- pers	135	30.1	Dressmakers, etc., exc. factory	120	9.2
Other specified laborers	520	25.4	Laundry and dry cleaning operatives	296	37.8
Laborers (n.e.c.)	2,649	25.9	Spinners and weavers, textile	69	0.7
Manufacturing	898	24.3	Other	1,095	7.3
Nonmanufacturing (incl. not reptd.)	1,750	26.7	Operatives and kindred wks. (n.e.c.)	1,486	10.2
Occupation not reported	2,156	17.5	Manufacturing	1,371	9.5
Female	22,304	12.8	Nonmanufacturing (incl. not reptd.)	115	19.6
Prof., tech., kindred workers	2,793	7.2	Private household workers	1,760	54.5
Accountants and auditors	80	2.5	Living in	180	26.4
Actors, dancers, etc. (n.e.c.)	25	4.3	Living out ⁸	1,600	57.3
Artists and art teachers	37	2.7	Service workers, except private household	3,020	19.5
Authors, editors, and reporters	46	1.2	Attendants, hospital, etc.	301	24.3
College pres., prof., and inst. (n.e.c.)	39	5.7	Charwomen, janitors ⁴	213	26.0
Designers and draftsmen	25	3.4	Cooks	351	23.5
Dietitians and nutritionists	25	16.0	Hairdressers and cosmetologists	272	12.7
Lawyers and judges	8	2.6	Housekeepers, etc., exc. priv. hld	122	10.5
Librarians	72	5.1	Practical nurses and midwives	208	17.2
Musicians and music teachers	111	3.8	Waiters, bartenders, and counter wks.	917	7.6
Natural scientists	15	6.2	Other service workers	606	35.9
Nurses, professional	577	6.5	Farm laborers and foremen	270	33.9
Nurses, student professional	57	3.8	Unpaid family workers	125	12.7
Physicians and surgeons	16	10.1	Exc. unpaid family wks., farm foremen	144	52.3
Social scientists	14	3.5	Laborers, exc. farm and mine	125	24.0
Social, welfare, and rec. workers ¹	78	12.4	Occupation not reported	1,298	18.4
Teachers	1,112	9.1			
Elementary school	857	9.5			
Secondary school	245	8.0			
Teachers (n.e.c.)	94	7.4			
Technicians, medical and dental	88	7.8			

¹ Includes group workers. ² Includes other industries not shown separately. ³ Excludes compositors and typesetters. ⁴ Includes deliverymen and tractor drivers. ⁵ Includes porters and sextons. ⁶ Includes marshals, constables, detectives, and bailiffs. ⁷ Includes brokers and underwriters. ⁸ Includes all babysitters, whether living in or living out.

No. 388. INDEXES OF OUTPUT PER MAN-HOUR, HOURLY COMPENSATION, AND UNIT LABOR COSTS IN THE PRIVATE ECONOMY: 1950 TO 1969

[1957-59=100. Prior to 1960, excludes Alaska and Hawaii. Employee compensation includes wages and salaries and employer contributions to social security, private insurance and pension funds, compensation for injuries and other minor items of labor income. All person compensation includes, in addition, estimates of wages, salaries, and supplemental benefits for the self-employed. Nonlabor payments are the difference between labor payments and gross product in current dollars]

ITEM	1950	1955	1960	1965	1967	1968	1969
Output per man-hour:							
Total private economy:							
Output per man-hour—all persons.....	80.3	93.0	105.0	126.6	134.3	188.7	139.9
Output per man-hour—employees.....	85.1	95.3	103.8	121.6	126.5	180.4	130.5
Private nonfarm sector:							
Output per man-hour—all persons.....	84.4	95.7	104.4	123.6	129.9	134.2	134.8
Output per man-hour—employees.....	85.3	95.4	104.2	121.7	126.6	130.5	130.4
Manufacturing:							
Output per man-hour—all persons.....	85.0	97.2	105.5	120.8	132.1	130.2	142.8
Output per man-hour—employees.....	85.4	97.4	105.3	129.3	131.1	138.0	141.5
Compensation per man-hour:							
Total private economy:							
Compensation per man-hour—all persons.....	64.7	84.5	108.5	133.7	151.2	162.7	174.6
Real compensation per man-hour—all persons.....	77.2	90.6	105.2	121.7	130.1	134.4	136.8
Compensation per man-hour—employees.....	65.7	85.4	107.9	130.8	146.7	157.6	168.5
Real compensation per man-hour—employees.....	78.4	91.5	104.7	119.2	126.2	130.1	132.1
Manufacturing:							
Compensation per man-hour—all persons.....	63.2	85.0	108.5	129.2	141.6	151.3	161.0
Real compensation per man-hour—all persons.....	75.4	91.1	105.2	117.6	121.9	124.9	120.2
Prices and costs:							
Total private economy:							
Compensation per unit of output—all persons.....	80.6	90.0	103.3	105.5	112.6	117.4	124.8
Compensation per unit of output—employees.....	77.2	89.6	104.0	107.7	116.0	120.9	129.2
Manufacturing:							
Compensation per unit of output—all persons.....	74.4	87.4	102.9	99.6	107.2	108.7	112.8
Compensation per unit of output—employees.....	74.0	87.3	103.0	99.9	108.0	109.6	113.8
Consumer price index.....	83.8	93.3	103.1	109.9	116.3	121.2	127.7

Source: Dept. of Labor, Bureau of Labor Statistics; annual releases, *Indexes of Output Per Man-Hour, Hourly Compensation, and Unit Labor Costs in the Private Sector of the Economy and the Nonfarm Sector and Indexes of Output Per Man-Hour, Hourly Compensation, and Unit Labor Costs in the Manufacturing Sector*.

No. 389. YEAR-TO-YEAR CHANGES IN EARNINGS, COMPENSATION, AND PRICES: 1945 TO 1969

[Percent. Minus sign (-) denotes decrease]

PERIOD	AVERAGE—				PERIOD	AVERAGE—				Con- sumer price index		
	Hourly earnings manufactur- ing ¹		Compensation per employee man-hour, pri- vate nonfarm economy ³			Hourly earnings, manufactur- ing ¹		Compensation per employee man-hour, pri- vate nonfarm economy ³				
	Money	Real ²	Money	Real ²		Money	Real ²	Money	Real ²			
1945-46	5.9	-2.3	(NA)	(NA)	8.5	1957-58	—	2.9	0.1	3.7	0.9	2.8
1946-47	13.0	-1.2	12.7	-1.5	14.4	1958-59	—	3.8	3.0	4.3	3.5	0.8
1947-48	9.0	1.1	9.0	1.1	7.7	1959-60	—	3.2	1.6	4.1	2.4	1.6
1948-49	3.8	4.8	3.0	4.0	-1.0	1960-61	—	2.7	1.5	3.2	2.2	1.1
1949-50	4.3	3.3	5.4	4.4	1.0	1961-62	—	3.0	1.8	3.8	2.6	1.2
1950-51	8.3	0.4	9.0	0.9	8.0	1962-63	—	2.9	1.7	3.5	2.3	1.2
1951-52	5.8	3.4	5.6	3.3	2.2	1963-64	—	2.8	1.6	4.7	3.3	1.3
1952-53	5.5	4.8	5.5	4.8	0.8	1964-65	—	3.2	1.3	3.6	2.0	1.7
1953-54	2.3	1.8	3.5	3.1	0.4	1965-66	—	4.2	1.3	5.8	2.8	2.9
1954-55	4.5	4.8	3.6	4.0	-0.3	1966-67	—	4.0	1.3	5.6	2.7	2.8
1955-56	4.8	3.3	5.8	4.2	1.5	1967-68	—	6.4	2.1	7.3	3.0	4.2
1956-57	5.4	1.6	5.9	2.4	3.5	1968-69	—	8.0	0.8	6.7	1.3	5.4

NA. Not available. ¹ Includes premium payments for overtime and other unusual hours of work; excludes employer expenditures for welfare and pension benefits; excludes effect (in terms of hours worked) of payments for vacations, holidays, and other paid leave.

² Reflects purchasing power of money earnings.

³ Based on employee compensation data from Dept. of Commerce, Office of Business Economics, and man-hours data from Dept. of Labor, Bureau of Labor Statistics. Includes employer contributions to social insurance and to private welfare and pension plans.

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review*.

Labor Force, Employment, and Earnings

No. 340. INDEXES OF OUTPUT PER MAN-HOUR—PRODUCTION WORKERS AND ALL EMPLOYEES, SELECTED INDUSTRIES: 1950 TO 1968

[1957-59=100, except as indicated. Prior to 1960, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1957*, series W 13-32 and W 44, for indexes on a 1947 base]

INDUSTRY	OUTPUT PER PRODUCTION WORKER MAN-HOUR						OUTPUT PER ALL EMPLOYEE MAN-HOUR			
	1950	1955	1960	1965	1967 (prel.)	1968 (prel.)	1960	1965	1967 (prel.)	1968 (prel.)
Manufacturing: ¹										
Aluminum rolling and drawing ²	(NA)	(NA)	102.0	161.2	165.5	(NA)	102.3	165.0	168.6	(NA)
Beet sugar	75.4	(NA)	108.7	123.4	124.6	(NA)	109.1	124.0	124.0	(NA)
Candy and other confectionery	71.7	88.0	107.4	123.6	133.2	(NA)	107.7	128.7	135.5	(NA)
Canning and preserving	76.1	90.0	108.5	129.8	137.0	(NA)	108.3	130.2	135.9	(NA)
Cement, hydraulic	67.5	92.1	105.7	145.9	155.0	(NA)	104.7	138.8	148.2	(NA)
Concrete products	72.1	98.2	94.1	118.6	125.0	(NA)	96.2	117.7	121.8	(NA)
Corrugated, solid fiber boxes ²	(NA)	100.4	119.5	125.4	(NA)	101.2	119.7	125.2	125.2	(NA)
Flour and other grain-mill prod.	60.8	86.8	103.6	130.5	131.8	(NA)	103.3	131.9	136.0	(NA)
Footwear	84.4	92.7	103.2	106.4	105.6	(NA)	103.0	107.3	105.8	(NA)
Glass containers	95.1	97.9	104.0	118.4	117.3	(NA)	100.4	118.5	118.3	(NA)
Gray iron foundries	(NA)	97.0	103.6	121.0	117.3	(NA)	102.8	128.0	117.5	(NA)
Hosiery	72.9	83.3	107.7	147.3	188.5	(NA)	108.1	147.7	188.2	(NA)
Malt liquors	77.8	87.2	108.9	146.8	160.6	(NA)	110.9	149.5	165.6	(NA)
Man-made fibers	(NA)	103.4	132.2	145.0	(NA)	103.0	132.4	140.2	124.2	(NA)
Motor vehicle and equipment ³	(NA)	112.5	137.7	145.1	155.3	113.9	141.8	144.9	158.4	(NA)
Paper, paperboard, pulp mills	78.4	90.4	109.5	142.7	150.8	(NA)	108.2	140.0	146.3	(NA)
Petroleum refining	68.3	87.8	115.9	167.3	184.9	(NA)	114.8	164.4	181.2	(NA)
Primary aluminum	69.3	82.2	121.3	142.4	149.3	(NA)	121.4	145.2	148.7	(NA)
Primary copper, lead, zinc	84.5	98.7	105.2	126.0	114.5	(NA)	106.0	129.1	111.9	(NA)
Radio and TV receiving sets ²	(NA)	(NA)	109.3	146.4	168.3	(NA)	109.8	165.4	177.0	(NA)
Steel ⁴	87.7	99.8	99.6	119.6	121.1	127.0	98.6	121.3	119.9	125.3
Tires and inner tubes	82.7	86.2	111.5	154.5	160.6	(NA)	111.1	153.6	156.5	(NA)
Tobacco products	80.4	83.2	114.0	136.2	135.3	(NA)	112.9	138.7	131.0	(NA)
Cigars	66.0	74.0	123.4	174.1	189.5	(NA)	122.7	172.6	164.0	(NA)
Cigarettes, chewing and smoking tobacco	96.2	92.2	107.8	116.0	117.3	(NA)	106.5	114.3	113.9	(NA)
Mining:										
Coal mining ³	61.6	87.7	111.8	152.9	165.0	171.4	(NA)	(NA)	(NA)	(NA)
Copper (crude ore)	72.9	84.0	107.9	129.1	123.7	127.1	(NA)	(NA)	(NA)	(NA)
Copper (recoverable metal) ³	84.3	90.0	103.6	119.6	110.0	108.4	(NA)	(NA)	(NA)	(NA)
Iron (crude ore)	75.5	95.5	114.6	162.6	168.4	185.2	(NA)	(NA)	(NA)	(NA)
Iron (usable ore) ³	93.6	111.3	104.7	127.3	128.1	129.4	(NA)	(NA)	(NA)	(NA)
Transportation and utilities:										
Air transportation ⁵	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	107.1	171.1	204.5	213.8
Gas and electric utilities ⁶	52.3	81.3	115.7	160.4	181.5	193.7	114.7	156.0	175.0	186.9
RR transportation (car miles) ⁷	72.3	88.4	109.2	135.4	145.6	148.3	108.5	138.3	142.6	146.4
RR transportation (revenue traffic)	71.1	88.3	111.1	159.8	175.7	183.6	110.4	157.5	173.4	181.1

NA. Not available. ¹ Man-hours worked, except as noted.

² 1958=100. ³ Man-hours paid.

⁴ Includes anthracite and bituminous coal. ⁵ Indexes refer to output per employee rather than output per all employee man-hour. ⁶ Indexes refer to output per nonsupervisory worker man-hour rather than output per production worker man-hour. ⁷ Class I line-haul railroads and switching and terminal companies.

Source: Dept. of Labor, Bureau of Labor Statistics; *Indexes of Output Per Man-Hour for Selected Industries, 1899 and 1947-68* (Bulletin No. 1661).

No. 341. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—NUMBER, EARNINGS, AND HOURS: 1950 TO 1970

[Prior to 1960, excludes Alaska and Hawaii. Workers include all full- and part-time employees who worked during, or received pay for, any part of pay period including 12th of month. Net spendable average weekly earnings represent average gross earnings less social security and Federal income taxes. Overtime defined as work in excess of either straight-time workday or workweek and paid for at time and one-half. See *Historical Statistics, Colonial Times to 1957*, series D 626-628, for related but not comparable data]

YEAR	Workers, annual average (1,000)	Gross average weekly earnings	NET SPENDABLE AVERAGE WEEKLY EARNINGS				Average weekly hours	AVERAGE HOURLY EARNINGS			
			Worker with no dependents		Worker with 3 dependents			Gross	Exclud- ing overtime		
			Current dollars	1957-59 dollars	Current dollars	1957-59 dollars					
1950	12,523	\$58.32	\$60.26	\$59.98	\$56.36	\$67.82	\$40.5	\$1.44	\$1.39		
1955	13,288	75.70	62.51	67.00	66.79	74.80	40.7	1.86	1.79		
1960	12,586	89.72	72.57	70.39	80.11	77.70	39.7	2.26	2.20		
1965	13,434	107.53	88.08	81.06	96.78	88.06	41.2	2.61	2.51		
1966	14,273	112.34	91.57	80.96	99.45	87.93	41.3	2.72	2.60		
1967	14,300	114.90	93.28	80.21	101.26	87.07	40.6	2.83	2.72		
1968	14,485	122.51	97.70	80.61	106.75	88.08	40.7	3.01	2.88		
1969	14,735	129.51	101.90	79.80	111.44	87.27	40.6	3.19	3.06		
1970, April (prel.)	14,196	131.80	105.18	78.49	114.37	85.35	39.7	3.32	3.21		

Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*.

Hours and Earnings

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No. 342. HOURLY AND WEEKLY EARNINGS IN CURRENT AND 1969 PRICES, SELECTED INDUSTRIES: 1940 TO 1969

(Prior to 1960, excludes Alaska and Hawaii. Includes overtime. Data are for production workers in manufacturing, construction workers in contract construction, and nonsupervisory employees in retail trade)

TYPE OF EARNINGS AND YEAR	MANUFACTURING						CONTRACT CONSTRUCTION	RETAIL TRADE		
	Total		Durable		Nondurable			Current prices	1969 prices ¹	
	Current prices	1969 prices ¹	Current prices	1969 prices ¹	Current prices	1969 prices ¹				
HOURLY										
1940.....	\$0.66	\$1.73	\$0.72	\$1.88	\$0.59	\$1.54	(NA)	(NA)	\$0.49	
1945.....	1.02	2.08	1.10	2.24	.89	1.81	(NA)	(NA)	.70	
1950.....	1.44	2.19	1.52	2.32	1.35	2.06	\$1.86	\$2.83	.98	
1955.....	1.86	2.55	1.99	2.72	1.67	2.29	2.46	3.35	1.26	
1960.....	2.26	2.80	2.43	3.01	2.05	2.54	3.08	3.82	1.52	
1965.....	2.61	3.03	2.79	3.24	2.36	2.74	3.70	4.30	1.82	
1967.....	2.83	3.11	3.00	3.29	2.57	2.82	4.11	4.51	2.01	
1968.....	3.01	3.17	3.19	3.36	2.74	2.89	4.40	4.64	2.16	
1969.....	3.19	3.19	3.38	3.38	2.91	2.91	4.78	4.78	2.30	
WEEKLY										
1940.....	24.96	65.32	28.07	73.46	21.83	57.13	(NA)	(NA)	21.34	
1945.....	44.20	90.04	48.36	98.51	37.48	76.35	(NA)	(NA)	28.59	
1950.....	58.32	88.88	62.43	95.14	53.48	81.50	69.68	106.19	39.71	
1955.....	75.70	103.63	82.19	112.62	66.63	91.22	90.90	124.44	48.75	
1960.....	89.72	111.16	97.44	120.73	80.36	99.57	113.04	140.06	57.76	
1965.....	107.55	124.95	117.18	136.16	94.64	109.97	138.38	160.80	66.61	
1967.....	114.00	126.13	123.60	135.68	102.03	112.00	154.95	170.09	70.95	
1968.....	122.51	129.13	132.07	139.20	109.05	114.04	164.66	173.45	74.95	
1969.....	129.51	129.51	139.59	139.59	115.53	115.53	181.64	181.64	78.66	

NA. Not available. ¹ Earnings in current prices divided by consumer price index on base 1969=100.

² Beginning 1950, includes eating and drinking places.

Source: Executive Office of the President, Council of Economic Advisers. Based on Dept. of Labor data.

No. 343. INDEXES OF UNION WAGE RATES AND WEEKLY HOURS IN SELECTED TRADES: 1945 TO 1969

[1957-59=100. Prior to 1964, excludes Alaska. As of July 1. Indexes of rates reflect changes in minimum hourly wage scales; indexes of hours reflect changes in the negotiated straight-time weekly hours. Year-to-year changes in union scales are based on comparable quotations for each individual trade weighted by membership for current year. See *Historical Statistics, Colonial Times to 1957*, series D 642-653, for printing on 1948-49 base and other trades on 1947-49 base]

TRADE	1945	1950	1955	1960	1964	1965	1966	1967	1968	1969
Building trades:										
Rate.....	44.4	68.0	86.8	109.0	126.2	131.4	130.0	144.6	154.1	166.9
Hours.....	101.1	100.2	100.1	99.9	99.5	99.4	99.3	99.2	99.2	99.3
Journeymen:										
Rate.....	45.4	68.8	87.1	108.6	125.7	130.7	136.2	143.8	153.4	166.4
Hours.....	101.2	100.2	100.1	99.9	99.5	99.4	99.2	99.0	99.0	99.1
Helpers and laborers:										
Rate.....	38.1	63.9	84.5	110.0	129.7	135.8	141.4	149.5	158.8	170.3
Hours.....	100.7	99.9	100.0	100.0	99.9	99.0	99.9	99.8	99.8	99.8
Printing trades:										
Rate.....	44.2	75.1	91.0	106.3	119.3	122.7	126.7	131.9	138.5	147.6
Hours.....	106.2	101.3	100.7	99.6	99.1	98.0	98.7	98.5	98.4	98.2
Book and job:										
Rate.....	43.8	74.7	90.7	106.9	120.7	124.4	128.6	133.1	140.0	148.8
Hours.....	108.3	101.8	100.9	99.4	98.0	98.7	98.4	98.2	98.1	97.9
Newspaper:										
Rate.....	45.6	76.3	91.6	105.4	117.1	120.1	123.9	129.9	136.5	145.5
Hours.....	103.1	100.9	100.5	99.9	99.3	99.0	98.7	98.7	98.7	98.5
Motortruck drivers and helpers:										
Rate.....	41.5	64.9	86.0	109.3	127.7	132.2	136.8	144.0	152.4	161.4
Hours.....	112.9	105.9	101.9	98.9	98.4	98.4	98.3	98.2	98.2	98.2
Local transit operators, rate.....	43.6	69.2	87.6	108.4	126.4	131.7	137.3	146.6	156.3	168.6

¹ Includes lithographers.

Source: Dept. of Labor, Bureau of Labor Statistics; annual report, *Union Wages and Hours*.

No. 344. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—HOURS AND GROSS EARNINGS, BY STATES: 1960 TO 1969

STATE	AVERAGE WEEKLY EARNINGS				AVERAGE WEEKLY HOURS		AVERAGE HOURLY EARNINGS			
	1960	1965	1968	1969	1965	1969	1960	1965	1968	1969
	\$89.72	\$107.55	\$122.51	\$129.51	41.2	40.6	\$2.26	\$2.61	\$3.01	\$3.19
United States ¹										
New England:										
Maine.....	71.15	85.08	98.09	102.51	41.3	40.2	1.77	2.06	2.41	2.55
New Hampshire.....	70.45	84.25	98.74	103.10	40.9	39.5	1.77	2.06	2.45	2.61
Vermont.....	76.59	92.01	108.00	114.64	42.4	41.5	1.85	2.17	2.59	2.76
Massachusetts.....	81.96	98.74	114.40	120.69	40.8	39.7	2.09	2.45	2.86	3.04
Rhode Island.....	78.70	88.51	101.96	107.87	40.6	40.1	1.88	2.18	2.53	2.69
Connecticut.....	93.26	113.25	128.63	136.78	42.1	41.7	2.32	2.69	3.07	3.28
Middle Atlantic:										
New York.....	89.61	106.40	121.48	128.30	39.7	39.6	2.31	2.68	3.06	3.24
New Jersey.....	93.93	112.34	125.76	132.60	41.0	40.8	2.37	2.74	3.09	3.25
Pennsylvania.....	89.86	107.73	119.20	127.52	40.5	40.1	2.31	2.66	2.98	3.18
East North Central:										
Ohio.....	104.13	127.02	142.68	152.10	42.2	41.9	2.60	3.01	3.41	3.63
Indiana.....	100.49	121.66	136.86	143.97	41.7	40.9	2.51	2.92	3.33	3.52
Illinois.....	97.70	117.28	132.53	141.09	41.4	41.0	2.45	2.83	3.26	3.46
Michigan.....	112.00	143.79	164.15	168.78	44.6	42.0	2.75	3.22	3.79	3.97
Wisconsin.....	96.32	114.55	130.97	140.72	41.7	41.4	2.37	2.75	3.18	3.40
West North Central:										
Minnesota.....	95.07	112.20	128.87	136.78	41.2	41.2	2.36	2.72	3.13	3.32
Iowa.....	93.68	113.36	130.14	137.64	40.7	40.1	2.35	2.78	3.22	3.44
Missouri.....	87.87	105.51	122.31	127.76	40.3	39.8	2.34	2.62	3.05	3.21
North Dakota.....	81.85	100.38	110.99	112.01	42.5	39.8	1.97	2.36	2.80	2.79
South Dakota.....	90.90	103.81	121.32	122.23	43.8	43.5	2.02	2.37	2.69	2.81
Nebraska.....	87.41	103.67	119.38	127.48	43.1	42.9	2.08	2.40	2.80	2.97
Kansas.....	95.82	113.95	126.32	128.86	42.3	41.9	2.36	2.69	2.97	3.07
South Atlantic:										
Delaware.....	91.01	114.96	129.34	130.17	41.5	40.3	2.31	2.77	3.17	3.23
Maryland.....	90.63	107.94	122.61	131.38	41.2	40.8	2.26	2.62	3.02	3.22
District of Columbia ²	97.61	113.51	129.17	138.77	42.0	39.2	2.49	2.82	3.27	3.54
Virginia.....	70.62	87.56	101.11	106.60	41.5	41.0	1.77	2.11	2.46	2.60
West Virginia.....	93.27	110.70	122.41	128.64	40.4	40.2	2.41	2.74	3.03	3.20
North Carolina.....	61.14	75.17	88.48	94.13	41.3	40.4	1.54	1.82	2.19	2.33
South Carolina.....	63.27	78.77	92.06	98.47	41.9	41.2	1.57	1.88	2.24	2.39
Georgia.....	65.40	82.61	96.70	104.55	41.1	41.0	1.66	2.01	2.37	2.55
Florida.....	70.07	91.37	105.82	113.30	42.3	41.5	1.86	2.16	2.55	2.73
East South Central:										
Kentucky.....	83.92	102.91	117.23	122.71	41.0	40.1	2.13	2.51	2.90	3.06
Tennessee.....	73.23	85.27	99.38	105.04	40.8	40.4	1.84	2.09	2.46	2.60
Alabama.....	75.65	93.63	105.32	111.38	41.8	41.1	1.92	2.24	2.65	2.71
Mississippi.....	60.50	74.98	91.43	95.06	41.2	40.8	1.82	2.23	2.53	2.83
West South Central:										
Arkansas.....	62.71	75.03	88.84	94.13	41.0	40.4	1.56	1.83	2.21	2.33
Louisiana.....	86.71	107.87	121.93	128.74	42.3	41.8	2.12	2.55	2.91	3.08
Oklahoma.....	85.47	101.22	114.11	121.25	42.0	41.1	2.10	2.41	2.79	2.95
Texas.....	89.19	103.91	119.81	125.03	41.9	41.4	2.17	2.48	2.88	3.02
Mountain:										
Montana.....	96.04	114.80	133.33	138.23	41.0	40.3	2.45	2.80	3.26	3.43
Idaho.....	90.00	106.00	119.30	122.92	40.0	38.9	2.25	2.65	2.99	3.16
Wyoming.....	95.25	108.39	118.50	123.24	37.9	39.0	2.54	2.86	3.07	3.18
Colorado.....	95.26	116.18	130.60	138.43	41.2	41.2	2.42	2.82	3.17	3.38
New Mexico.....	82.58	93.79	102.47	104.41	40.6	39.7	2.08	2.31	2.53	2.63
Arizona.....	99.14	113.85	123.52	126.17	41.1	40.7	2.46	2.77	3.02	3.10
Utah.....	98.89	114.45	126.63	129.49	40.3	39.6	2.46	2.84	3.15	3.27
Nevada.....	113.30	126.88	150.14	157.61	39.9	39.8	2.75	3.18	3.84	3.96
Pacific:										
Washington.....	101.78	122.06	141.73	152.08	39.5	39.5	2.63	3.09	3.57	3.85
Oregon.....	97.04	117.01	132.06	140.37	39.8	39.1	2.55	2.94	3.35	3.59
California.....	104.28	123.83	138.63	145.89	40.6	40.3	2.62	3.05	3.44	3.62
Alaska.....	(NA)	159.47	171.97	185.24	43.1	42.1	(NA)	3.70	4.31	4.40
Hawaii.....	(NA)	99.60	112.68	119.82	39.3	39.6	(NA)	2.28	2.81	3.02

NA. Not available.

¹ For 1960, Alaska and Hawaii included in United States averages but individual State data not available.² Represents Washington, D.C., Standard Metropolitan Statistical Area.Source: Dept. of Labor, Bureau of Labor Statistics; monthly report, *Employment and Earnings*. Compiled from data supplied by cooperating State agencies.

No. 345. WAGE AND BENEFIT DECISIONS—MEDIAN ANNUAL RATES OF INCREASE: 1965 TO 1969

[Percent. Excludes increases in wages resulting from cost-of-living escalator adjustments. For definition of median, see preface.]

MEASURE	1965	1966	1967	1968	1969
MAJOR COLLECTIVE BARGAINING SITUATION¹					
Wage and benefit changes (packages):					
Equal timing ²	3.3	4.0	5.2	6.0	7.4
Time weighted (actual timing) ³	(NA)	4.7	5.5	6.6	8.3
Negotiated wage-rate increases averaged over life of contract:					
All industries	3.3	3.9	5.0	5.2	6.8
Manufacturing	(NA)	3.8	5.1	4.9	5.8
Nonmanufacturing	(NA)	3.9	5.0	5.9	8.5
Negotiated 1st-year wage increases:					
All industries	3.9	4.8	5.7	7.2	8.0
Manufacturing	4.1	4.2	6.4	6.9	7.0
Nonmanufacturing	3.7	6.0	5.0	7.5	10.0
WAGE INCREASES IN MANUFACTURING					
All establishments	3.7	4.2	5.3	6.0	6.2
Union establishments	3.6	4.1	5.5	6.5	6.9
Nonunion establishments	4.0	4.4	5.0	5.0	6.0

NA. Not available.

¹ Contracts affecting 1,000 workers or more, except for packages. Package cost estimates are limited to settlements affecting 5,000 workers or more (10,000 in 1965). The package cost of a few settlements, affecting relatively few workers, has not been determined.

² Based on estimated increases in hourly costs at end of contract period and assumes equal spacing of wage and benefit changes over life of contract.

³ Takes account of actual effective dates of wage and benefit changes.

Source: U.S. Congress, Joint Economic Committee; *The Federal Budget, Inflation, and Full Employment*. (91st Congress, 1st Session.) Data from Dept. of Labor, Bureau of Labor Statistics.

No. 346. PERCENT INCREASE IN AVERAGE PAY FOR SELECTED OCCUPATIONS AND IN CONSUMER PRICES: 5-YEAR PERIOD ENDING IN 1968-69

[Data based on period January 1964-January 1969, except as noted]

ITEM	Total	Average annual rate	ITEM	Total	Average annual rate
PRIVATE INDUSTRY					
Professional, administrative, technical and clerical employees, average salaries: ¹			GOVERNMENT		
Clerical and beginning technicians	21.9	4.1	Police patrolmen and firefighters: ³		
Entry and development professional levels, advanced technician levels, and supervisors of nonprofessional levels	26.4	4.8	Minimum annual salary scales	38.5	6.7
Fully experienced professional working levels, supervisors of professional levels and program administrative levels	25.4	4.6	Police patrolmen	39.3	6.9
Factory production workers:			Firefighters	37.4	6.6
Gross average hourly earnings	23.3	4.3	Maximum annual salary scales	38.4	6.7
Gross average weekly earnings	26.2	4.8	Police patrolmen	39.4	6.9
Average straight-time hourly earnings ²	22.5	4.2	Firefighters	36.8	6.5
CONSUMER PRICES			Public school teachers, average annual salaries ⁴	31.9	5.7
Consumer price index	15.2	2.9	Federal classified employees: ⁵		
			Basic annual salary scales	27.0	4.9
			Average annual salary rates	28.5	5.1
			Average annual salaries	32.8	5.8

¹ Covers five 12-month periods between February-March 1964 and June 1969. For further details, see *National Survey of Professional, Administrative, Technical, and Clerical Pay*, Bulletin No. 1654.

² Derived from gross hourly earnings by assuming that overtime paid for at rate of time and one-half.

³ Covers cities with 1960 population of 100,000 or more. ⁴ Relates to 5 school years ending with 1968-1969.

⁵ Covers July 1963-July 1968. Basic scales reflect only statutory changes in salaries. Average rates show effect of statutory changes and merit or ingrade salary increases; average salaries measure also effect of changes in proportion of workers in various grades.

No. 347. MEDIAN EARNINGS OF MALE CIVILIANS BY OCCUPATION OF LONGEST JOB: 1958 TO 1968

[In dollars. Covers persons 14 years old and over as of March of year following year shown. Earnings relate to longest job held in year shown. Based on sample; see text, p. 1. For definition of median, see preface]

OCCUPATION GROUP	ALL WORKERS				YEAR-ROUND FULL-TIME WORKERS			
	1958	1960	1966	1968	1958	1960	1966	1968
Total with earnings	4,068	4,392	5,809	6,442	4,888	5,368	6,856	7,664
Professional, technical, kindred workers	6,132	6,568	8,330	9,476	6,780	7,115	9,205	10,542
Self-employed	9,945	9,188	13,280	14,787	11,231	10,858	14,830	17,358
Physicians and surgeons ¹	11,805	10,833	15,706	24,512	(B)	12,777	16,381	25,000
Other self-employed workers ¹	8,934	8,250	10,991	13,089	(B)	(B)	13,846	14,908
Salaried	5,938	6,444	8,115	9,270	6,514	6,954	8,958	10,243
Engineers, technical	7,738	8,241	10,821	12,021	8,161	8,740	11,218	12,360
Physicians and surgeons ¹	(B)	5,272	7,046	13,387	(B)	(B)	7,931	17,195
Teachers, elementary and secondary	5,393	5,589	7,157	8,241	5,651	6,063	7,620	8,779
Other salaried workers ¹	5,559	6,131	7,687	8,708	6,075	6,643	8,510	9,784
Farmers and farm managers	1,555	1,572	3,043	2,668	1,878	2,004	3,547	3,863
Managers, officials, and proprietors, except farm	5,599	6,158	8,351	9,333	5,000	6,648	8,826	9,704
Self-employed	4,787	4,774	6,249	7,052	5,145	5,258	6,662	7,400
In retail trade	4,386	4,440	5,810	6,580	4,527	4,757	6,114	6,801
Other self-employed workers	5,388	5,140	6,016	7,521	5,772	5,950	7,198	8,250
Salaried	6,247	7,154	9,161	10,180	6,501	7,472	9,465	10,601
Clerical and kindred workers	4,356	4,806	5,671	6,405	4,864	5,291	6,542	7,324
Other, exc. secy., steno., and typists	4,351	4,801	5,675	6,461	4,866	5,285	6,544	7,320
Salesworkers	4,133	4,517	5,794	6,491	5,371	5,842	7,553	8,292
In retail trade	2,704	3,105	3,001	3,081	4,333	4,760	6,150	8,015
Other salesworkers	5,227	5,616	7,248	7,867	6,082	6,512	8,264	9,110
Craftsmen, foremen, and kindred workers	4,832	5,312	6,604	7,407	5,346	5,826	7,181	7,958
Foremen	6,088	6,554	7,930	8,866	6,245	6,706	8,104	9,061
Craftsmen	4,638	5,146	6,498	7,158	5,200	5,670	6,981	7,769
In construction	4,640	4,952	6,451	6,992	5,361	5,900	7,183	7,880
Other	4,600	5,187	6,511	7,194	5,167	5,634	6,937	7,737
Operatives and kindred workers	3,895	4,201	5,381	5,917	4,502	4,997	6,185	6,773
Manufacturing	4,065	4,461	5,646	6,208	4,586	5,054	6,219	6,884
Durable goods	4,178	4,713	5,924	6,580	4,750	5,212	6,440	7,113
Nondurable goods	3,831	4,060	5,072	5,501	4,305	4,564	5,723	6,349
Other operatives and kindred workers	3,660	3,887	4,978	5,512	4,428	4,915	6,008	6,827
Service workers, except private household	3,018	2,928	3,403	3,660	3,961	4,088	5,117	5,898
Waiters, cooks, and bartenders	2,951	2,613	2,912	(NA)	3,570	4,010	4,491	(NA)
Other service workers	3,029	3,044	3,511	(NA)	4,042	4,100	5,210	(NA)
Farm laborers and foremen	480	476	768	854	1,479	1,685	2,576	2,870
Laborers, except farm and mine	2,287	2,342	2,580	2,652	3,732	4,017	5,133	5,606

B Not computed; base less than 200,000. NA Not available. ¹ Medical and other health workers included in "Physicians and surgeons" through 1966; in "Other" thereafter.

Source: Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-60, Nos. 33, 37, 53, 66, and unpublished data.

No. 348. PERCENT INCREASE IN AVERAGE SALARIES FOR SELECTED OCCUPATIONS IN PRIVATE INDUSTRY: 1961 TO 1969

[Excludes Alaska and Hawaii. Prior to 1965, includes only standard metropolitan statistical areas; for definition see text, p. 2. 1966 and subsequent years cover establishments employing 50 workers or more in the finance insurance, and real estate division; 100 workers or more in transportation; communications; electric, gas, and sanitary services; wholesale trade; engineering and architectural services; and research, development, and testing laboratories operated on a commercial basis; and 250 workers or more in the manufacturing and retail trade divisions. Prior to 1966, covers establishments employing 250 workers or more in all above industries. Based on sample and subject to sampling variability.]

OCCUPATIONAL GROUP	1961-1969	1965-1966	1966-1967	1967-1968	1968-1969	OCCUPATIONAL GROUP	1961-1969	1965-1966	1966-1967	1967-1968	1968-1969
Accountants	40.4	3.8	4.6	5.7	7.0	Directors of personnel	39.3	3.6	3.8	5.4	5.4
Auditors	42.0	3.8	4.8	5.5	7.2	Chemists	43.2	4.8	4.4	5.1	6.5
Chief accountants	40.9	3.8	5.1	5.5	5.8	Engineers	39.1	3.7	4.3	5.4	6.2
Attorneys	(1)	4.0	3.2	5.3	(1)	Engineering technicians	430.6	2.8	3.7	5.1	5.8
Managers, office services	(2)	3.3	5.5	5.6	(2)	Drafting	(5)	1.5	3.5	5.3	5.8
Buyers	(2)	(2)	4.2	4.9	6.6	Clerical	34.5	3.0	4.6	5.0	5.3
Job analysts	34.7	5.4	3.4	7.0	2.1						

¹ Due to a change in occupational definitions, data for 1968-69 not comparable with previous years.

² Occupation dropped from survey in 1969. ³ Not surveyed before 1966.

⁴ Not surveyed before 1962; therefore, the increase relates to the period beginning in 1962.

⁵ Comparable data not available due to change in definition in 1966.

Source: Dept. of Labor, Bureau of Labor Statistics; *National Survey of Professional, Administrative, Technical, and Clerical Pay*, Bulletin No. 1654.

No. 349. EMPLOYEE COMPENSATION IN THE PRIVATE NONFARM ECONOMY: 1968

(Based on a sample survey. Covers employees in private nonfarm establishments having 1 or more paid workers)

COMPENSATION PRACTICE	ALL INDUSTRIES, ALL EMPLOYEES		MANUFACTURING INDUSTRIES				NONMANUFACTURING INDUSTRIES			
	Percent ¹	Dollars ²	Office		Nonoffice		Office		Nonoffice	
			Percent ¹	Dollars ²	Percent ¹	Dollars ²	Percent ¹	Dollars ²	Percent ¹	Dollars ²
Total compensation.....	100.0	\$3.89	100.0	\$5.82	100.0	\$3.69	100.0	\$4.67	100.0	\$3.15
Wages and salaries.....	89.7	3.49	89.5	5.21	88.4	3.26	91.1	4.26	89.8	2.83
Straight-time pay.....	80.4	3.13	78.3	4.56	77.4	2.86	81.8	3.82	82.6	2.61
Premium pay.....	2.4	.09	1.3	.08	4.5	.17	0.7	.03	2.6	.08
Overtime, weekend, and holiday work.....	2.1	.08	1.1	.06	3.6	.13	0.6	.03	2.4	.08
Shift differentials.....	0.8	.01	0.2	.01	0.9	.03	0.1	(z)	0.2	.01
Pay for leave time.....	5.0	.24	7.8	.46	6.2	.23	6.8	.32	4.3	.13
Vacations.....	3.1	.12	4.0	.24	3.6	.13	3.8	.16	2.2	.07
Holidays.....	2.0	.08	2.5	.15	2.1	.08	2.2	.10	1.3	.04
Sick, civic personal	0.7	.04	1.2	.07	0.4	.02	1.2	.06	0.5	.01
Nonproduction bonuses and severance.....	1.1	.04	2.1	.13	0.6	.03	1.8	.09	0.5	.02
Supplements ³	10.3	.40	10.5	.61	11.6	.43	8.0	.42	10.2	.32
Social security ⁴	3.3	.13	2.8	.18	3.5	.13	3.1	.14	3.7	.12
Unemployment insurance.....	0.8	.03	0.6	.03	0.9	.03	0.6	.03	1.0	.03
Workmen's compensation.....	0.9	.03	0.8	.02	1.0	.04	0.3	.01	1.4	.05
Life, accident, and health insurance.....	2.2	.09	2.4	.14	3.1	.12	1.7	.08	1.8	.06
Private pension plans.....	2.7	.11	3.9	.23	2.6	.10	3.1	.15	2.0	.06
Other.....	0.3	.01	0.5	.03	0.2	(z)	0.2	.01	0.2	.01

^z Less than \$0.005. ¹ Of total compensation. ² Per hour of working time.³ Employer expenditures. ⁴ Includes railroad retirement.Source: Dept. of Labor, Bureau of Labor Statistics, *Employee Compensation in the Private Nonfarm Economy, 1968*.

No. 350. PERCENT OF WORKERS EMPLOYED IN ESTABLISHMENTS HAVING FORMAL PROVISIONS FOR SELECTED SUPPLEMENTARY WAGE BENEFITS, 227 SMSA's: 1968

Surveys relate geographically to the 227 standard metropolitan statistical areas in the United States, as established by the Bureau of the Budget through April 1967. Data for a majority of the workers relate to late 1967 and early 1968; for the remainder, to late 1966 and early 1967. Data obtained from sample of establishments which employ 10 workers or more, except in 12 of the largest areas where the minimum size was 100 employees for manufacturing, public utilities, and retail trade; see source. Excludes data for government institutions, and construction and extractive industries. Excludes administrative, executive, and professional employees)

TYPE OF BENEFIT	Office workers	Plant workers	TYPE OF BENEFIT	Office workers	Plant workers
PAID HOLIDAYS¹					
No paid holidays.....	(z)				
6 or more days.....	96	4			
7 or more days.....	80	89			
8 or more days.....	61	72			
9 or more days.....	37	26			
10 or more days.....	19	9			
11 or more days.....	11	3			
12 or more days.....	4	1			
PAID VACATIONS²					
2 weeks or more:			PAID VACATIONS ² —con.		
After 1 year of service.....	78	25	4 weeks or more:		
After 5 years of service.....	99	95	After 20 years of service.....	52	42
3 weeks or more:			After 25 years of service.....	68	54
After 5 years of service.....	17	13			
After 10 years of service.....	75	60	HEALTH, INSURANCE, AND PENSION PLANS		
After 15 years of service.....	90	81	Catastrophe.....	79	49
			Sickness and accident insurance.....	43	63
			Sick leave (full pay and no waiting period).....	60	19
			Sick leave (partial pay and/or waiting period).....	9	12
			Retirement pension.....	88	74

^z Less than 0.5 percent.¹ Relates to holidays provided annually. Represents half-day and full-day holidays combined.² Such payments as percentages of annual earnings or flat-sum were converted to an equivalent time basis.Source: Dept. of Labor, Bureau of Labor Statistics, *Wages and Related Benefits: All Metropolitan Areas, United States and Regional Summaries, 1967-68* (Bulletin No. 1575-87, Part Two).

No. 351. FARM EMPLOYMENT AND WAGE RATES: 1950 TO 1970

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 73, K 75, K 76 (for indexes on 1910-14 base), and K 77-80]

YEAR OR MONTH	EMPLOYMENT ¹ (1,000)			WAGE RATES ⁴				Index of farm wage rates (1957-59 = 100)	
	Total	Family ²	Hired ³	Per month		Per day			
				With board and room	With house	With board and room	Without board or room		
1950	9,920	7,597	2,329	\$99	\$121	\$4.45	\$4.50	74	
1955	8,381	6,345	2,036	123	154	5.40	5.30	89	
1960	7,057	5,172	1,885	149	192	6.50	6.60	108	
1965	5,610	4,128	1,482	170	223	7.40	7.60	126	
1967	4,903	3,650	1,253	200	262	8.60	9.00	148	
1968	4,746	3,632	1,213	216	283	9.30	9.90	160	
1969	4,590	3,415	1,174	234	307	10.10	10.90	176	
Apr. 1	3,984	3,177	807	228	297	9.20	10.30	177	
1970, Apr. 1	3,888	3,087	821	245	319	9.90	11.30	180	

¹ Arithmetic means of monthly estimates of persons employed during last full calendar week in each month.

² Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week.

³ Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

⁴ Weighted averages of wage rates as reported quarterly by crop reporters.

Source: Dept. of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

No. 352. FARM WAGE WORKERS—CHARACTERISTICS AND EARNINGS: 1968

[Persons 14 years old and over. Refers to civilian noninstitutional population. Based on sample and subject to sampling variability; see source for detailed explanation. For definition of median, see preface]

CHARACTERISTIC	Workers (1,000)	Median earnings per day ¹	CHARACTERISTIC	Workers (1,000)	Median earnings per day ¹
			Duration of farm wage work:		
All workers	2,919	8.35	Under 25 days	1,200	7.25
White	2,225	8.95	25-74 days	730	8.05
Negro and other	693	6.85	75-149 days	304	9.40
Male	2,111	9.00	150-249 days	251	9.70
Female	808	6.65	250-299 days	134	12.85
Age and migratory status:			300 days and over	200	10.80
14-19 years	1,216	7.20	Region: ²		
Migratory	120	8.15	Northeast	279	9.05
Nonmigratory	1,097	7.10	North Central	556	8.75
20 years and over	1,702	9.30	South	1,333	7.10
Migratory	159	11.15	West	751	11.00
Nonmigratory	1,543	9.10			

¹ Rounded to the nearest 5 cents.

² For composition of regions, see fig. I, p. xi.

Source: Dept. of Agriculture, Economic Research Service; *The Hired Farm Working Force of 1968*.

No. 353. FARM EMPLOYMENT, BY GEOGRAPHIC DIVISIONS: 1950 TO 1969

In thousands. Excludes Alaska and Hawaii. Annual average number of persons employed during last full calendar week of each month. For composition of divisions, see fig. I, p. xii]

GEOGRAPHIC DIVISION	TOTAL WORKERS ¹					HIRED WORKERS ²				
	1950	1955	1960	1965	1969	1950	1955	1960	1965	1969
Total	9,926	8,381	7,057	5,610	4,590	2,329	2,036	1,885	1,482	1,174
New England	219	188	137	108	76	71	60	46	34	28
Middle Atlantic	616	502	402	292	236	185	137	111	77	54
East North Central	1,508	1,424	1,204	952	778	237	200	182	132	95
West North Central	1,779	1,537	1,338	1,114	935	275	216	195	154	121
South Atlantic	1,812	1,509	1,238	975	731	417	395	381	326	229
East South Central	1,432	1,098	883	705	536	240	216	208	162	105
West South Central	1,407	1,146	940	707	640	423	362	339	251	204
Mountain	418	365	332	273	249	151	134	126	98	99
Pacific	675	612	583	483	414	330	301	297	248	239

¹ Includes operators and unpaid family members.

² See footnote 3, table 351.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

No. 354. INJURY-FREQUENCY RATES, 1960 TO 1968, AND SEVERITY MEASURES, 1967 AND 1968, FOR SELECTED INDUSTRIES

(Frequency ratio is the number of disabling work injuries, and severity rate is the number of days disability, per 1 million employee-hours worked. Data are from the American National Standard Method of Recording and Measuring Work Injury Experience. Data are on basis of Standard Industrial Classification. See also *Historical Statistics, Colonial Times to 1957*, series D 785, for injury-frequency rates for manufacturing on old basis)

INDUSTRY	INJURY-FREQUENCY RATES				SEVERITY MEASURES			
	1960	1965	1967	1968	Average days of disability per case		Severity rate	
					1967	1968	1967	1968
Manufacturing								
Ordnance and accessories	12.0	12.8	14.0	14.0	51	49	709	690
Food and kindred products	2.4	2.8	5.6	4.1	36	47	205	192
Tobacco manufactures	21.1	23.4	25.3	26.8	41	38	1,044	1,023
Textile-mill products	8.7	9.5	9.7	10.3	44	41	428	420
Apparel and related products	9.2	9.6	9.8	10.4	51	47	505	488
Lumber and wood products (exc. furniture)	6.7	6.8	6.9	7.2	21	25	144	181
Furniture and fixtures	38.0	36.0	30.2	36.1	80	82	3,127	2,973
Paper and allied products	18.8	19.9	22.5	22.3	42	42	948	945
Printing, publishing, and allied industries	12.3	12.6	14.0	14.2	58	56	807	797
Chemicals and allied products	9.5	10.0	10.4	10.4	34	45	348	470
Petroleum refining and related industries	7.4	7.5	7.7	7.8	74	89	571	605
Rubber and misc. plastics products	6.8	8.6	9.5	8.6	112	96	1,064	821
Leather and leather products	10.0	12.3	16.4	15.6	45	51	739	794
Stone, clay, and glass products	11.4	13.4	14.8	15.5	33	29	400	455
Primary metal industries	18.3	18.7	20.4	21.6	70	56	1,438	1,212
Fabricated metal products	10.5	12.9	15.1	15.2	69	61	1,037	917
Machinery (except electrical)	15.4	18.7	21.2	21.1	46	44	985	924
Electrical machinery, equip., and supplies	10.8	11.9	13.1	13.2	41	40	532	533
Transportation equipment	5.2	5.9	7.4	7.0	43	39	317	272
Instruments and related products	6.1	6.6	7.1	7.4	59	57	421	423
Miscellaneous manufacturing industries	5.8	6.2	7.8	7.8	36	48	283	374
Manufacturing	12.7	13.3	15.0	15.3	42	38	632	582
Mining								
Coal mining and preparation	42.5	44.7	41.9	40.8	(NA)	(NA)	7,538	9,859
Metal mining and milling	(NA)	(NA)	22.8	21.1	(NA)	(NA)	4,073	3,227
Nonmetal mining and milling	(NA)	(NA)	22.2	22.5	(NA)	(NA)	2,364	3,010
Sand and gravel	18.8	17.9	18.8	20.2	(NA)	(NA)	2,723	2,440
Stone quarrying and milling	(NA)	16.2	16.5	16.6	(NA)	(NA)	2,133	2,505
Contract construction								
Contract construction	31.5	28.3	26.7	26.9	80	74	2,130	1,992
Transportation and public utilities:								
Local and interurban passenger transit	14.3	15.8	23.9	23.6	52	52	1,239	1,220
Motor freight transp. and warehousing	32.3	29.2	31.7	31.7	59	57	1,877	1,821
Communication	1.0	1.0	1.3	1.9	65	103	88	184
Electric, gas, and sanitary services	6.2	5.3	5.6	6.2	133	156	740	966
Wholesale and retail trade								
Wholesale and retail trade	(NA)	11.8	11.2	11.3	42	41	467	460
Finance, insurance, and real estate:								
Banking	2.4	2.2	2.2	2.0	93	87	206	180
Credit agencies other than banks	2.5	1.6	0.9	0.9	(NA)	(NA)	(NA)	(NA)
Security and commodity brokers, and serv.	1.0	1.2	0.6	0.9	(NA)	(NA)	(NA)	(NA)
Insurance carriers	2.4	2.3	2.0	2.4	51	77	101	186
Insurance agents, brokers, and services	(NA)	1.5	1.9	1.3	(NA)	(NA)	(NA)	(NA)
Real estate	13.6	10.4	10.2	10.7	(NA)	66	(NA)	703
Services:								
Hotels and other lodging places	13.5	12.5	13.2	12.7	21	41	270	524
Personal services	7.0	9.3	8.9	8.6	56	37	502	323
Miscellaneous business services	10.5	7.5	7.4	5.4	59	60	434	320
Automobile repair, services, and garages	15.3	13.8	16.0	14.5	65	39	1,050	568
Miscellaneous repair services	18.4	16.7	19.9	20.1	60	35	1,189	710
Motion pictures	6.9	5.6	6.9	5.9	(NA)	(NA)	(NA)	(NA)
Amusement and recreation, except motion pictures	13.6	13.2	14.0	10.5	(NA)	54	(NA)	562
Medical and other health services	8.1	7.8	8.9	8.3	30	31	264	262
Educational services	8.5	8.8	7.6	7.3	44	34	334	245
Miscellaneous services	5.2	2.8	3.8	3.9	(NA)	(NA)	(NA)	(NA)
State government:								
Hospitals	16.3	21.0	19.6	20.0	37	27	732	535
Institutions of higher education	9.3	8.7	7.0	7.1	26	41	184	286
Federal Government								
Federal Government	8.4	7.3	7.1	6.9	(NA)	91	553	628

NA Not available.

¹ Compiled by Dept. of the Interior, Bureau of Mines. Excludes experience of central office workers. 1968 data preliminary.

² Compiled by Dept. of Labor, Bureau of Employees' Compensation. Excludes military personnel.

Source: Dept. of Labor, Bureau of Labor Statistics; annual report, *Injury Rates by Industry*.

No. 355. NATIONAL AND INTERNATIONAL UNIONS—MEMBERSHIP: 1940 TO 1968

[Estimates based on average number of dues-paying members of unions with headquarters in the United States. Certain unions did not report as members persons not required to pay dues, such as apprentices and workers who were retired, unemployed, in the Armed Forces, or involved in work stoppages. Excludes membership in single-firm and local unaffiliated unions. See also *Historical Statistics, Colonial Times to 1957*, series D 741 and 745.]

ITEM	1940	1950	1955	1960	1964	1965	1966	1968
Unions affiliated with AFL-CIO.....	147	137	139	134	129	129	129	126
Union membership, total.....	1,000	8,944	15,000	17,749	18,117	17,976	18,519	19,181
White-collar membership.....	1,000	(NA)	(NA)	12,463	2,192	2,585	(NA)	2,810
Percent of total membership.....		(NA)	(NA)	13.6	12.2	14.4	(NA)	14.7
Canadian members of U.S. unions.....	1,000	227	733	947	1,068	1,135	1,220	1,241
Excluding Canadian members.....	1,000	8,717	14,267	16,802	17,049	16,841	17,299	17,940
Membership as percent of—								
Total labor force.....		15.5	22.0	24.4	23.6	22.2	22.4	22.7
Employment in nonagricultural estab-								
lishments.....		26.0	31.5	33.2	31.4	28.9	28.4	28.1
AFL-CIO.....	1,000	7,872	12,143	16,062	15,072	15,150	15,604	16,198
Independent or unaffiliated unions.....	1,000	1,072	2,600	1,688	3,045	2,825	2,915	2,983
								15,608
								4,650

NA. Not available. ¹ 1958 data.

Source: Dept. of Labor, Bureau of Labor Statistics; annual report, *Handbook of Labor Statistics, Directory of National and International Labor Unions in the United States*, and unpublished data.

No. 356. LABOR UNION MEMBERSHIP—TOTAL AND PERCENT OF NONAGRICULTURAL EMPLOYMENT, STATES: 1964 AND 1968

[Based on reports and estimates for national, international, and local unions directly affiliated with the AFL-CIO, and members in single firm and local unaffiliated unions. Excludes membership outside the United States]

STATE	TOTAL (1,000)		PERCENT OF NONAGRICUL-TURAL EMPLOY-MENT		STATE	TOTAL (1,000)		PERCENT OF NONAGRICUL-TURAL EMPLOY-MENT		
	1964	1968	1964	1968		1964	1968	1964	1968	
United States.....	17,188	19,297	29.5	28.4	Montana.....	62	81	35.2	31.3	
Alabama ¹	158	103	18.7	20.1	Nebraska ¹	78	79	19.2	17.2	
Alaska.....	21	27	32.1	34.0	Nevada ¹	49	52	32.8	29.4	
Arizona ¹	71	89	18.5	18.9	New Hampshire.....	42	43	20.1	17.5	
Arkansas ¹	73	97	17.0	19.1	New Jersey.....	701	735	92.3	26.6	
California.....	1,857	2,118	33.3	31.9	New Mexico.....	57	37	14.5	13.4	
Colorado.....	128	149	22.8	21.8	New York.....	2,453	2,539	38.5	36.2	
Connecticut.....	267	275	27.0	23.7	North Carolina ¹	100	124	7.4	7.5	
Delaware.....	41	53	24.0	26.0	North Dakota ¹	21	29	14.8	18.8	
Florida ¹	214	279	14.0	14.4	Ohio.....	1,180	1,345	36.7	35.8	
Georgia ¹	166	239	14.0	16.6	Oklahoma.....	94	121	15.1	16.7	
Hawaii.....	49	70	23.6	27.5	Oregon.....	196	213	34.2	31.6	
Idaho.....	32	37	19.0	19.3	Pennsylvania.....	1,462	1,585	38.7	37.3	
Illinois.....	1,410	1,538	38.4	36.0	Rhode Island.....	86	83	28.3	24.1	
Indiana.....	563	653	36.4	36.0	South Carolina ¹	48	66	7.4	8.6	
Iowa ¹	163	183	22.6	21.3	South Dakota ¹	15	24	10.0	14.4	
Kansas ¹	109	124	18.6	18.3	Tennessee ¹	201	246	19.2	19.4	
Kentucky.....	195	235	27.0	27.5	Texas ¹	394	474	14.1	13.0	
Louisiana.....	180	187	18.7	18.0	Utah ¹	53	62	18.0	18.4	
Maine.....	59	58	20.8	17.9	Vermont.....	21	29	18.7	20.7	
Maryland ¹	369	429	22.9	22.6	Virginia ¹	184	230	15.8	16.6	
Massachusetts.....	540	562	28.0	25.5	Washington.....	376	454	44.0	41.4	
Michigan.....	1,074	1,068	42.7	38.2	West Virginia.....	206	213	44.7	41.9	
Minnesota.....	350	375	34.0	30.2	Wisconsin.....	424	473	33.4	32.2	
Mississippi ¹	62	76	13.5	13.8	Wyoming ¹	19	20	19.4	19.2	
Missouri.....	537	584	37.9	36.0	Membership not classified.....	-	200	(X)	(X)	

¹ Represents zero. X Not applicable.

¹ State has a right-to-work law. ² Includes District of Columbia.

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1969*.

No. 357. NATIONAL AND INTERNATIONAL UNIONS—NUMBER AND MEMBERS, BY INDUSTRY AND AFFILIATION: 1964 AND 1968

[See headnote, table 355. Excludes local unions directly affiliated with the AFL-CIO. "N.e.c." means not elsewhere classified]

INDUSTRY GROUP	ALL UNIONS, 1964			1968					
	Number ¹	Members ²		All unions			AFL-CIO unions		
		Number (1,000)	Percent	Number ¹	Members ²	Number ¹	Number (1,000)	Percent	Number ²
All unions.....	189	17,919	100.0	189	20,210	100.0	126	15,560	100.0
Manufacturing.....	108	9,342	46.6	103	9,218	45.6	77	6,754	43.4
Food, beverages, and tobacco.....	26	1,063	5.9	34	919	4.6	23	584	3.6
Clothing, textiles, and leather products.....	24	1,216	6.8	32	1,192	5.9	20	1,184	7.5
Furniture, lumber, wood products and paper.....	26	811	4.5	48	915	4.5	34	837	5.4
Printing and publishing.....	15	355	2.0	19	375	1.9	15	368	2.3
Petroleum, chemicals, and rubber.....	19	562	3.1	54	724	3.6	37	561	3.7
Stone, clay, and glass.....	18	253	1.4	20	295	1.5	17	261	1.7
Metals, machinery and equipment, except transportation equipment.....	37	2,646	14.8	85	3,022	14.9	51	2,355	15.1
Transportation equipment.....	19	1,197	6.7	21	1,333	6.6	14	323	2.1
Manufacturing, n.e.c.....	32	238	1.3	60	443	2.1	41	328	2.0
Nonmanufacturing.....	101	8,125	45.3	106	8,837	43.7	77	7,124	45.8
Mining and quarrying.....	12	321	1.8	16	342	1.7	9	134	0.9
Contract construction.....	28	2,923	13.0	26	2,541	12.6	19	2,452	15.8
Transportation.....	47	2,429	13.6	48	2,503	12.4	37	1,511	0.7
Telephone and telegraph.....	8	437	2.4	8	476	2.4	6	423	2.7
Electric and gas utilities.....	17	305	1.7	16	324	1.6	12	282	1.8
Trade.....	18	1,217	6.8	21	1,392	6.9	15	1,209	7.8
Finance and insurance.....	7	61	0.3	5	50	0.2	3	46	0.3
Service industries.....	27	981	5.5	38	1,093	5.4	24	977	6.3
Agriculture and fishing.....	6	40	0.2	5	26	0.1	1	4	(z)
Nonmanufacturing, n.e.c.....	8	9	0.1	11	90	0.4	7	86	0.6
Government.....	59	1,453	8.1	59	2,155	10.7	35	1,682	10.8
Federal.....	56	897	5.0	57	1,351	6.7	34	892	5.7
State and local.....	18	566	3.1	18	804	4.0	15	790	5.1

^Z Less than 0.05 percent.

¹ In cases where more than one industry group was applicable, the union was tabulated in each; therefore, detail will not add to total.

² Number of members computed by applying reported percentage figures to total membership, including membership outside the United States.

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1966* and *1969*.

No. 358. NATIONAL AND INTERNATIONAL UNIONS REPORTING 100,000 MEMBERS OR MORE: 1964 AND 1968

[In thousands. Data are for unions with headquarters in the United States. All unions not identified as independent (Ind.) are affiliated with the AFL-CIO]

UNION	MEMBERS		UNION	MEMBERS		UNION	MEMBERS	
	1964	1968		1964	1968		1964	1968
Teamsters (Ind.).....	1,507	1,755	Electrical (IUE).....	271	324	Electrical (UE).....		
Automobile workers.....	1,168	1,473	Plumbers.....	256	297	(Ind.).....	165	167
Steelworkers.....	965	1,120	Government.....			Postal clerks.....	139	166
Machinists.....	808	903	(AFGE).....	139	295	Teachers.....	100	165
Electrical (IBEW).....	806	897	Musicians.....	275	283	Bricklayers.....	135	180
Carpenters.....	780	793	Railway and steamship clerks.....	270	280	Papermakers.....	133	145
Laborers'.....	432	553	District 50, Allied and technical (Ind.) ¹	210	232	Boilermakers.....	125	140
Retail clerks.....	428	552			Sheet metal workers.....	117	140	
Meatcutters.....	341	500			Transit union.....	133	134	
Hotel and restaurant.....	445	459			Firefighters.....	115	133	
Garment, ladies'.....	442	455	Letter carriers.....	188	210	Printing pressmen.....	116	126
Building services (SEIU).....	320	389	Rubber.....	165	203	Maintenance of way.....	121	125
Clothing workers.....	377	388	Painters.....	199	200	Typographical union.....	113	123
State, county communications workers.....	235	364	Textile workers.....	177	183	Railway Carmen.....	121	117
Engineers, operating.....	294	357	Pulp, sulphite.....	176	183	Chemical (Ind.).....		104
	311	350	Retail, wholesale.....	167	175	Transport workers.....	135	98
			Oil, chemical.....	162	173	Railroad trainmen.....	185	(z)
			Ironworkers.....	143	168	Packinghouse.....	145	(z)

¹ Represents zero. ² Excludes United Mine Workers of America (Ind.) whose membership is believed to be over 100,000. ² Estimated membership over 100,000. Merged into United Transportation Union in January 1969. ³ Merged with meatcutters.

Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1969*.

No. 359. LABOR UNIONS—FINANCIAL DATA, BY TYPE OF UNION: 1967 AND 1968

[Money figures in millions of dollars. For fiscal years ending during calendar year. Data from annual financial reports of labor organizations filed with Department of Labor under provisions of Labor-Management Reporting and Disclosure Act of 1959 which covers substantially all labor unions in the United States, except those not engaged in an industry affecting commerce, those composed entirely of public employees, and those which are State or local central bodies. Classification by type is based mainly on union's self-classification in reports filed with Department of Labor]

ITEM	1967			1968		
	National unions	Intermediate bodies	Local unions	National unions	Intermediate bodies	Local unions
Number of unions.....	202	2,725	1 48,000	207	2,720	1 48,000
Assets.....	1,001.4	160.1	1,103.1	1,037.6	171.9	1,145.3
Cash on hand and in banks.....	228.4	70.1	533.9	216.2	73.2	556.0
Loans receivable.....	45.0	5.6	28.0	43.3	5.8	36.0
U.S. Treasury securities.....	237.6	14.1	180.9	308.7	25.1	185.4
Other investment assets.....	340.8	36.7	188.1	303.4	33.7	145.5
Other assets.....	149.6	33.6	213.2	166.0	34.1	222.4
Liabilities.....	59.3	21.3	80.4	56.7	20.9	85.7
Accounts payable.....	7.9	1.9	20.6	8.7	1.9	19.4
Loans payable.....	7.1	8.3	15.5	6.6	5.8	16.8
Mortgages payable.....	10.9	2.0	21.3	10.5	2.1	23.1
Other liabilities.....	33.4	9.1	23.0	30.9	11.1	26.4
Receipts ¹	881.5	196.2	1,424.5	1,059.1	207.3	1,629.3
Dues or per capita tax.....	475.7	116.9	1,038.4	564.9	126.3	1,195.7
Fees, fines, assessments, and work permits.....	52.1	11.9	190.0	50.4	12.9	180.8
Other receipts.....	353.7	67.4	196.1	443.8	68.1	243.8
Disbursements ²	876.8	186.5	1,348.9	1,021.2	189.5	1,564.6
Per capita tax and assessments.....	83.0	15.5	542.2	76.2	18.0	638.8
Payments to officers and employees.....	164.3	54.4	360.9	203.2	58.9	415.9
Office and administrative expenses.....	44.1	15.9	132.4	52.1	15.5	141.3
Loans made.....	11.5	3.7	6.1	7.0	2.9	8.6
Payments for benefits.....	203.4	9.3	87.9	211.5	9.1	101.0
Other disbursements.....	370.5	87.7	219.4	471.2	82.1	258.1

¹ Financial data adjusted to represent a constant universe of 48,000 local unions because financial detail could not be tabulated for all. Actual number of reporting local unions: 48,580 in 1967 and 48,573 in 1968.

² Receipts and disbursements for national, intermediate, and local unions should not be added; such a total would contain duplication due to transfer of certain monies from one type of union to another, with each type reporting the transaction.

Source: Dept. of Labor, Office of Labor-Management and Welfare-Pension Reports; unpublished data.

No. 360. LABOR UNIONS—NUMBER AND ASSETS, BY SIZE OF RECEIPTS: 1968

[Assets in millions of dollars. See headnote, table 359]

RECEIPT SIZE	NUMBER OF UNIONS				ASSETS			
	Total	National unions	Intermediate bodies	Local unions	Total	National unions	Intermediate bodies	Local unions
Total.....	50,927	207	2,720	1 48,000	2,354.8	1,037.6	171.9	1,145.3
Under \$5,000.....	23,242	2	1,074	22,166	43.6	.1	2.1	41.4
\$5,000-\$9,999.....	7,959	7	281	7,671	45.6	.1	1.5	44.0
\$10,000-\$19,999.....	6,834	8	338	6,488	61.2	.2	2.7	58.3
\$20,000-\$29,999.....	3,464	4	253	3,207	50.5	.2	2.9	47.4
\$30,000-\$49,999.....	2,742	13	260	2,469	74.8	.4	7.1	67.3
\$50,000-\$99,999.....	2,857	14	172	2,671	83.0	.7	6.5	75.8
\$100,000-\$499,999.....	3,199	41	278	2,880	511.4	10.3	39.5	461.6
\$500,000-\$999,999.....	382	25	31	326	197.7	19.9	15.6	162.2
\$1,000,000-\$2,999,999.....	177	40	26	111	300.4	82.9	60.1	157.4
\$3,000,000 and over.....	71	53	7	11	986.6	922.8	33.9	29.9

¹ Financial data adjusted to represent a constant universe of 48,000 local unions because financial detail could not be tabulated for all. Actual number of reporting local unions: 48,573.

Source: Dept. of Labor, Office of Labor-Management and Welfare-Pension Reports; unpublished data.

No. 361. WORK STOPPAGES: 1950 TO 1969

[Prior to 1960, excludes Alaska and Hawaii. Excludes work stoppages involving fewer than 6 workers or lasting less than 1 day. Information obtained directly from companies and unions involved as well as from various Government labor boards, conciliation services, and other neutral parties. See also *Historical Statistics, Colonial Times to 1957*, series D 784-789 and D 774.]

YEAR	WORK STOPPAGES BEGINNING IN YEAR		WORKERS INVOLVED		MAN-DAYS IDLE DURING YEAR		
	Number	Average duration (calendar days)	Number ¹ (1,000)	Percent of total employed ²	Number (1,000)	Percent of estimated working time ³	Per worker involved
1950	4,843	10.2	2,410	5.1	38,800	0.33	16.1
1955	4,320	18.5	2,650	5.2	28,200	0.22	10.7
1960	3,333	23.4	1,320	2.4	19,100	0.14	14.5
1962	3,614	24.6	1,230	2.2	18,600	0.13	15.0
1963	3,302	23.0	941	1.1	16,100	0.11	17.1
1964	3,655	22.9	1,640	2.7	22,900	0.15	14.0
1965	3,963	25.0	1,550	2.5	23,300	0.15	15.1
1966	4,405	22.2	1,980	3.0	25,400	0.18	12.9
1967	4,595	22.8	2,870	4.3	42,100	0.25	14.7
1968	5,045	24.5	2,649	3.8	49,018	0.32	18.5
1969	5,700	22.5	2,481	3.5	42,869	0.28	17.3

¹ Workers counted more than once if involved in more than 1 stoppage during year.

² In 1967, total employed workers were redefined to coincide with the Bureau of Labor Statistics figures for nonagricultural employment plus agricultural wage and salaried workers. Idleness computed on this basis is lower than the former series.

³ Estimated working time computed by multiplying average number of employed workers (see footnote 2) by number of days worked by most employees.

Source: Dept. of Labor, Bureau of Labor Statistics; June or July issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

No. 362. WORK STOPPAGES—MAJOR ISSUES AND DURATION: 1967 TO 1969

[See headnote, table 361. Issues data based on stoppages beginning in year; duration data on stoppages ending in year. See *Historical Statistics, Colonial Times to 1957*, series D 770-778, for related but not comparable data.]

MAJOR ISSUES AND DURATION	WORK STOPPAGES			WORKERS INVOLVED ¹ (1,000)			MAN-DAYS IDLE DURING YEAR (1,000)		
	1967	1968	1969	1967	1968	1969	1967	1968	1969
MAJOR ISSUES									
All issues	4,595	5,045	5,700	2,870	2,649	2,481	42,100	49,018	42,869
General wage changes	2,116	2,544	2,829	1,850	1,550	1,284	30,300	35,852	27,473
Supplementary benefits	62	93	71	16	40	16	238	487	320
Wage adjustments	248	248	292	99	86	144	830	513	1,256
Hours of work	7	6	7	2	1	1	5	6	16
Other contractual matters	47	80	88	41	48	15	321	760	259
Union organization and security	530	513	503	114	112	250	6,450	4,151	7,466
Job security	232	180	190	105	143	76	1,150	1,570	2,273
Plant administration	701	726	882	488	461	513	1,660	4,508	2,848
Other working conditions	104	142	226	51	68	99	281	481	443
Interunion or intraunion matters	470	475	500	102	136	101	892	697	499
Not reported	22	29	22	3	4	1	14	14	16
DURATION									
All stoppages	4,583	5,045	5,690	2,860	2,657	2,362	38,400	53,575	37,312
1 day	579	540	726	254	202	237	254	202	237
2-3 days	669	685	807	746	261	301	1,240	511	598
4-6 days	651	692	756	223	284	324	726	946	1,038
7-14 days	953	1,047	1,111	461	511	416	2,710	3,486	2,682
15-29 days	715	847	952	268	286	384	3,680	4,151	5,196
30-59 days	570	690	792	592	754	372	9,600	17,012	10,154
60-89 days	224	283	272	262	170	140	11,000	8,148	6,236
90 days and over	232	261	274	120	190	188	9,200	19,121	11,203

¹ Workers counted more than once if involved in more than 1 stoppage during year.

Source: Dept. of Labor, Bureau of Labor Statistics; June or July issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

No. 363. WORK STOPPAGES, BY INDUSTRY GROUPS: 1955 TO 1969

[1955 excludes Alaska and Hawaii. See headnote, table 361. Work stoppages affecting more than 1 industry are counted as separate stoppages in each industry affected, and workers involved and man-days idle are allocated among the appropriate industries]

INDUSTRY GROUP	WORK STOPPAGES BEGINNING IN—										MAN-DAYS IDLE DURING YEAR (1,000)											
	1955					1960					1965				1966				1967			
	1955	1960	1965	1967	1968	1965	1967	1968	1969	1955	1960	1965	1967	1968	1969	1955	1960	1965	1967	1968	1969	
All industries	4,320	3,323	3,963	4,595	5,700	2,650	1,320	2,870	2,649	2,481	28,290	19,100	23,300	42,100	49,018	42,869	27,800	14,300	11,200	14,300	23,978	24,107
Manufacturing	2,120	1,598	2,080	2,328	2,664	2,822	2,18	2,000	1,778	1,350	1,778	1,308	18,860	11,190	31	121	136	121	224	334	334	1,481
Ordnance and accessories	13	3	12	15	20	20	22	40	11	10	19	19	1,136	1,136	—	—	—	770	1,171	1,171	1,171	1,517
Food and kindred products	169	184	227	227	209	222	209	209	57	64	68	74	651	651	1	1	1	—	—	—	—	8
Toys and manufactures	3	2	—	5	3	2	2	(Z)	—	2	7	9	4	17	14	34	34	174	174	174	174	138
Textile mill products	96	30	44	54	48	41	48	48	5	21	16	14	13	19	136	134	199	238	238	238	238	165
Apparel and other finished products, etc.	139	87	100	96	82	102	15	12	10	13	12	10	13	19	136	134	199	238	238	238	238	165
Lumber and wood products (exc. furniture)	81	39	46	60	61	76	12	12	5	13	12	10	15	227	103	204	204	273	273	273	273	296
Furniture and fixtures	121	81	69	76	77	82	26	13	10	16	18	18	18	287	183	194	194	361	393	393	393	361
Paper and allied products	67	52	91	109	95	126	14	14	9	30	37	24	36	197	136	931	931	776	776	776	776	456
Printing, publishing and allied industries	105	91	102	124	134	168	8	8	5	25	16	20	43	176	186	780	780	286	286	1,267	1,267	464
Chemicals and allied products	18	12	12	19	19	32	3	3	2	22	20	37	32	50	634	314	737	1,160	904	904	904	1,355
Petroleum refining and related industries	105	53	93	94	87	112	124	30	55	10	2	44	51	51	80	33	116	62	62	62	62	1,036
Rubber and plastic products	50	32	36	30	20	24	40	6	20	12	5	5	40	261	443	3,780	3,780	3,780	3,780	3,780	3,780	353
Leather and leather products	110	98	139	157	133	194	33	18	71	30	72	52	46	485	228	336	336	621	1,120	1,120	1,120	679
Stone, clay, and glass products	279	158	206	215	282	241	535	94	88	118	118	137	107	1,570	1,880	1,880	1,880	1,380	4,070	4,793	4,793	1,663
Primary metal industries (exc. ordnance, fabricated metal products, etc.)	282	195	269	274	349	381	131	44	87	107	78	74	1,590	575	1,430	1,430	2,270	2,270	2,036	2,036	1,378	
Machinery (except electrical)	306	144	265	260	414	361	230	69	113	117	180	146	3,800	1,240	1,240	1,240	4,010	4,010	3,936	3,936	3,168	
Electrical machinery, equipment and supplies	147	102	137	207	224	264	202	202	57	52	391	160	269	3,380	1,280	1,280	1,280	705	705	705	705	5,479
Transportation equipment	200	122	150	165	241	202	440	189	196	347	347	255	264	1,910	1,550	1,550	1,550	2,630	5,530	5,530	5,530	4,500
Professional, scientific, and controlling instruments; photographic and optical goods; watches and clocks	30	29	28	24	37	26	34	6	8	5	7	8	11	9	694	95	109	51	84	84	84	314
Miscellaneous manufacturing industries	99	54	54	56	63	71	14	5	7	8	11	14	191	14	191	14	164	240	240	240	240	225
Nonmanufacturing	1,913	1,740	1,886	2,267	2,396	2,893	646	610	633	1,530	1,471	1,174	1,174	9,490	7,990	9,420	14,300	25,040	15,763	15,763	15,763	
Agriculture, forestry, and fisheries	111	81	92	118	17	456	3	8	4	7	8	7	7	220	115	115	115	147	147	147	147	223
Mining	343	254	301	455	114	49	72	102	8	213	213	213	213	1,080	700	431	431	2,552	2,552	2,552	2,552	1,157
Contract construction	733	773	867	912	973	204	269	301	305	334	1,810	4,470	4,470	4,470	4,470	4,470	4,470	4,470	8,723	8,723	8,723	10,386
Transportation, communication, etc.	275	266	216	345	303	320	253	185	886	571	75	93	1,750	3,000	3,000	3,000	3,000	4,950	4,950	4,950	4,950	4,031
Wholesale and retail trade	409	290	356	431	417	470	52	33	48	87	75	93	1,050	451	934	934	934	934	934	934	934	1,310
Finance, insurance, and real estate	8	6	16	19	17	22	1	6	1	11	8	6	6	27	7	6	6	92	92	92	92	200
Services—Personal, business, and other	121	138	154	175	188	184	144	144	18	18	18	18	15	31	31	31	177	286	286	286	286	697
Government	36	42	42	42	181	254	414	1	1	1	1	1	1	161	161	161	161	1,250	2,345	2,345	2,345	753

Z Less than 500.

1 Workers counted more than once if involved in more than 1 stoppage during year.

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review*, May 1956, and thereafter, June or July issues, and annual bulletins, *Analysis of Work Stoppages*.

No. 364. WORK STOPPAGES, BY STATES: 1967 TO 1969

[See headnote, table 361. Work stoppages affecting more than 1 State are counted as separate stoppages in each State affected, and workers involved and man-days idle are allocated among the appropriate States]

STATE	WORK STOPPAGES BEGINNING IN—			WORKERS INVOLVED ¹ (1,000)		MAN-DAYS IDLE DURING YEAR						
						Number (1,000)			Percent of estimated work- ing time ²			
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
United States	4,595	5,045	5,700	2,870	2,649	2,481	12,100	49,018	42,869	0.25	0.32	0.28
New England:												
Maine	21	15	18	6	2	2	46	107	34	0.07	0.18	0.05
New Hampshire	24	17	23	5	5	3	76	134	88	0.14	0.24	0.15
Vermont	11	11	9	2	2	2	13	71	64	0.04	0.24	0.21
Massachusetts	157	160	172	44	69	85	527	1,704	1,957	0.11	0.35	0.39
Rhode Island	38	34	52	10	6	16	182	215	382	0.25	0.28	0.48
Connecticut	81	100	99	60	40	47	1,480	1,281	765	0.58	0.48	0.28
Middle Atlantic:												
New York	484	488	521	288	330	249	3,460	4,054	4,389	0.24	0.21	0.29
New Jersey	214	217	225	73	97	68	1,400	2,008	1,098	0.27	0.36	0.19
Pennsylvania	480	472	655	243	199	255	2,460	2,671	3,447	0.27	0.28	0.35
East North Central:												
Ohio	536	573	672	345	253	272	6,020	4,593	3,206	0.76	0.55	0.37
Indiana	166	236	214	141	115	100	2,100	1,726	1,409	0.55	0.44	0.34
Illinois	289	317	448	239	186	174	2,980	4,002	2,899	0.32	0.42	0.24
Michigan	233	354	305	284	261	90	5,180	7,753	1,016	0.85	1.22	0.22
Wisconsin	100	123	116	54	61	58	937	1,354	1,176	0.31	0.43	0.36
West North Central:												
Minnesota	71	61	75	51	18	11	704	298	156	0.28	0.11	0.06
Iowa	88	88	98	63	30	28	861	451	400	0.50	0.25	0.27
Missouri	155	147	190	90	77	136	978	1,187	5,047	0.29	0.34	1.42
North Dakota	6	10	7	4	3	1	7	33	9	0.02	0.12	0.01
South Dakota	4	10	10	1	3	1	2	35	10	0.01	0.10	0.03
Nebraska	17	20	29	14	16	7	84	194	207	0.09	0.21	0.22
Kansas	28	36	33	20	6	13	113	70	289	0.09	0.06	0.21
South Atlantic:												
Delaware	26	22	24	13	10	9	60	104	237	0.14	0.23	0.52
Maryland	64	64	81	35	33	38	285	530	595	0.12	0.20	0.22
District of Columbia	15	20	19	6	19	11	27	90	189	0.03	0.10	0.21
Virginia	84	92	133	51	47	41	382	329	454	0.14	0.12	0.16
West Virginia	151	170	245	46	68	115	505	862	882	0.48	0.81	0.78
North Carolina	45	44	48	23	15	11	132	160	224	0.04	0.05	0.06
South Carolina	22	23	20	11	9	4	69	187	95	0.04	0.11	0.04
Georgia	63	73	64	32	37	19	280	478	593	0.10	0.16	0.19
Florida	108	93	107	36	56	60	313	672	1,158	0.08	0.08	0.20
East South Central:												
Kentucky	104	148	184	51	77	92	528	650	1,218	0.31	0.37	0.65
Tennessee	96	92	133	60	44	38	895	977	597	0.35	0.33	0.21
Alabama	84	75	83	34	32	24	625	646	386	0.33	0.32	0.18
Mississippi	20	28	22	7	8	5	151	115	118	0.14	0.11	0.10
West South Central:												
Arkansas	25	34	29	9	11	5	125	134	115	0.12	0.12	0.10
Louisiana	68	62	75	45	31	23	1,030	294	688	0.50	0.14	0.31
Oklahoma	40	35	34	15	21	10	151	180	230	0.11	0.12	0.15
Texas	146	149	141	64	60	90	833	1,289	2,653	0.12	0.18	0.35
Mountain:												
Montana	28	26	15	28	5	3	885	488	30	2.52	1.35	0.08
Idaho	18	7	6	6	4	1	64	88	18	0.18	0.28	0.05
Wyoming	9	6	9	4	2	2	11	13	54	0.06	0.07	0.27
Colorado	19	45	63	8	9	13	43	154	143	0.03	0.12	0.09
New Mexico	20	18	19	6	5	4	169	125	29	0.35	0.22	0.06
Arizona	15	21	26	16	4	4	1,320	707	40	1.53	0.77	0.04
Utah	19	9	19	16	5	6	835	467	41	1.44	0.77	0.06
Nevada	19	22	22	6	3	12	152	115	66	0.46	0.32	0.16
Pacific:												
Washington	80	74	72	26	57	30	366	1,339	417	0.17	0.60	0.18
Oregon	42	51	60	14	15	12	108	243	182	0.08	0.18	0.13
California	300	384	368	146	135	100	2,070	2,404	2,894	0.16	0.17	0.21
Alaska	12	13	18	2	2	4	14	20	47	0.13	0.21	0.35
Hawaii	40	14	26	11	8	18	87	262	205	0.20	0.32	0.08

¹ See footnote 1, table 361.

² See footnote 3, table 361.